

JAMECO[®]

ELECTRONICS
Great Products, Awesome Prices!

Catalog 254
November 2005

Now 500% More Product!

See Inside Cover for Details



1-800-831-4242
www.Jameco.com

- The Lowest Prices — Guaranteed
- The Brands You Need Everyday
- Save 20% More with Quality
Jameco ValuePro™ & ReliaPro™ Products

Find a Lower Price? We'll Match It, And Then Pay You Another 10%!

Here's the deal to beat all deals: if you ever find a print-advertised price that's lower than an identical item in our catalog, we'll not only match the lower price, we'll beat it by an additional 10%, right down to our cost! No fine print, no questions asked.



At Jameco Electronics, we bring our customers the best products at the absolute lowest prices. And we don't just say it, we guarantee it!

Check Out These Money Saving Sample Price Comparisons*

Take a look through this sampling of recent price differences among our competitors, and calculate the substantial savings! Pricing will fluctuate, so please be sure and double-check when making purchases. But always remember, with Jameco you'll always get the lowest price!

Product Description	Jameco® Part No.	Jameco Page #	Jameco® Price	Digi-Key® Corp.	Mouser® Electronics	Newark InOne®	Minimum Savings	
							Savings	Discount
Cap, Tant, 2.2uf, 35V	33734CE	70	\$0.35	\$0.64	\$0.47	\$0.643	\$0.12	25.5%
Capacitor, Mica, 1nF, 100V, 5%	16011CE	68	\$1.19	\$3.16	\$1.85	\$2.52	\$0.66	35.7%
Cermet Pot, 50k, 3362P-503	254027CE	78	\$0.59	\$0.83	\$0.83	\$0.981	\$0.24	28.9%
BNC, Amphenol 31-2221, Receptacle	223538CE	129	\$2.89	\$4.18	\$3.90	\$4.18	\$1.01	25.9%
EEPROM, 93C46, DIP	102058CE	15	\$0.35	\$0.43	Not Offered	\$0.521	\$0.08	18.6%
Fan, 54CFM, 3.63" sq. x 1", 12VDC	319193CE	169	\$7.95	\$31.14	\$30.98	\$27.46	\$19.51	71.0%
Linear, LM317LM, SOIC	193551CE	39	\$0.35	\$0.72	\$0.43	\$0.689	\$0.08	18.6%
Logic, 74ACT138, DIP	212038CE	21	\$0.23	\$0.55	\$0.46	\$0.396	\$0.166	41.9%
Logic, 74AHC374, DIP	214210CE	22	\$0.26	\$0.66	Not Offered	\$0.66	\$0.40	60.6%
Logic, 74ALS240A, DIP	245753CE	32	\$0.49	\$0.84	\$0.99	\$0.756	\$0.266	35.2%
MOC3010 Opto-isolator	26278CE	51	\$0.56	\$0.82	\$0.86	\$0.82	\$0.26	31.7%
RCA Jack, Panel Mount, Right Angle	220564CE	104	\$0.45	\$0.61	\$0.53	\$0.735	\$0.08	15.1%
Relay, 4PDT, 5A, 12 VDC	291506CE	157	\$4.45	\$7.42	\$7.06	\$8.74	\$2.61	37.0%
Term Block, 12 pos, 10mm	215028CE	133	\$1.89	\$8.69	\$3.00	\$4.58	\$1.11	37.0%
Toroid, 150uH, Vertical	208320CE	81	\$4.35	\$6.24	\$8.92	\$6.81	\$1.89	30.3%
Wire, 18awg, Stranded, Black, UL1007	125786CE	94	\$5.79	\$26.89	\$12.65	\$20.82	\$6.86	54.2%

* This chart is a snapshot of single-unit prices taken from each party's website on September 9, 2005. Prices shown do not reflect added shipping & handling charges or any available discounts.

Now With 5x More Products!



No matter how you prefer to write it, we have 5 times or 500% more of the products you need every day! Yes, we've added thousands of money saving Jameco ValuePro™ and Jameco ReliaPro™ products. These products are manufactured for us and shipped directly to you, eliminating costly supply chain layers. We've also added thousands of well-known name-brand devices for those who have other AVL requirements. Just take a look at some of our popular name brands in the table below:

Abbatron Alcoswitch Alpha Wire AMD AMP Amphenol Avery Dennison Belden C & K CDE Chemtronics Cherry Cinch	Corcom Crydom Emerson Etasis Fluke General Cable Giga-Byte Grayhill Hellerman Intel Lexar LittellFuse Molex	Neutrik P&B Panduit Raychem SanDisk Seasonic Sparkle Speco Switchcraft Tech Spray Tyco Volex Zynet
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Jameco's Unique Formula

Jameco is committed to helping you save money, whether you prefer a name-brand product or a lower-cost generic equivalent of comparable quality. No one else offers the extensive savings in both AVL-qualified name-brands and cost-saving generic equivalents.

Unique Savings in Name Brands

We're also finding unique ways to help you save even on name-brand products. While customers use our catalog to search for the right generic product, they tell us that when they're buying a common name brand, they simply want to order a specific part number. So rather than print unneeded information in our catalog, we're printing just enough information to let you know what we offer and where to find it on our web site. Less space means less paper, less postage, less waste and less costs. A simple and potentially big savings we can pass on to you!

"Jameco now offers 5x more product versus early 2004."

Look throughout our catalog for tables like this to find new money-saving name-brand products.

Panel Mount Pushbutton Switches

- Temp. rating: -40°C to +85°C
- F designation for VDE approved
- Electrical life: 6,000 cycles min.
- Brass terminals

NEW ON THE WEB

CHERRY



See Our Complete Cherry Pushbutton Offering at www.Jameco.com/Prod/CherryPushbutton

Unique Shop-and-Compare Catalog

Looking to compare the prices of similar products? Only the Jameco catalog offers side-by-side comparisons of similar electronic components! Other catalogs are not allowed to provide this because of restrictive supplier agreements. And often, these same agreements prevent other catalogs from competing with us on price. Need an example of our side-by-side price comparisons? Take a look at the Bourns trimmer potentiometers on pages 77-78.

Jameco ValuePro In-Line Solder Pins			Bourns In-Line Solder Pins		
Qty.	1	10	Qty.	1	10
Price	\$1.99	\$1.82	Price	\$2.39	\$2.25
Part No.	Product No.	Ohms	Part No.	Product No.	Ohms
241058CE	3299W-100	10	238553CE	3299W-1-100	10
241066CE	3299W-200	20	238561CE	3299W-1-200	20

Over 99% of the SKUs in this catalog are in stock and ready for delivery, so you can count on same-day shipping whenever you need it. Plus, we're here and ready to take your order whenever you want to place it, every hour of every day. Just call us 24/7/365 at (800) 831-4242.

Great Reasons to Shop Jameco

- ✓ Side-by-side price comparisons
- ✓ 99+% of catalog items in stock
- ✓ 24/7/365 ordering by phone or web
- ✓ The industry's lowest prices

The Jameco Website



www.Jameco.com

Ordering is simplified, too! Just call us or visit our website and give us the product number. No SKU for you to provide, no messy search terms, just a simple manufacturer's part number. And don't forget, we're constantly updating the technical documents on our website too!

So, as you're thumbing through this catalog, be sure to look for the additional products referred to on our website. There's plenty of new products you use every day at Jameco's Awesome Prices!

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PRICES

Prices are effective 10-10-05. Prices and discounts are subject to change without notice.

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New Zealand: 080-044-0470

The Jameco RobotStore

Phone: 1-800-374-5764

Website: www.RobotStore.com

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An Industry Standard...

Looking for the biggest name in quality connectors? We now offer a broad range of D-Sub connectors, contacts, crimps and terminals from Amp. Look through our complete offering for headers, rectangular connectors with and without locking ramps and much more. You'll even find edge connector shunts to simplify your open-collector bus designs!

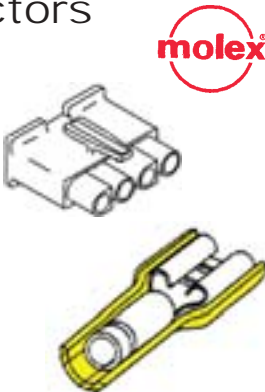


AMP

See pages 107, 112, 116 & 135

Defacto Modular Connectors

Molex has built its reputation on modular connector systems that ease your design work and implementation. We now offer their lines of KK and SPOX "building block" connectors, allowing tens of thousands of different wire-to-wire, wire-to-board and board-to-board configurations. Look to the pages listed below for over 3,500 high-density signal to lower density, high-current devices.



See pages 110-112, 117, 119, 120 & 134

News Flash: Memory That Is!

Lexar SanDisk

TOSHIBA



Now you can get just about any form of flash memory from your source for the lowest prices. Jameco just added Compact Flash, Multimedia, SD, xD-Picture Cards and Memory Sticks formats to its product line. Prefer Kingston, LexarMedia, SanDisk, Toshiba, Renesas, Fuji Film, or

Olympus? We've got them all in capacities from 32MB to 4GB, depending upon manufacturer and type. Plus, we now offer SanDisk's Ultra II series for the fastest transfer rates available!

See pages 217 & 293

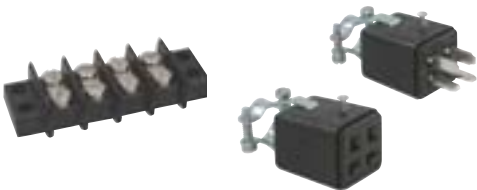
USB Flash Memory Readers

We have flash card readers (OK, they write too!) in both internal and external configurations. Look to pages 217, 229 & 293 for devices that support Compact Flash, Multimedia, SD, xD-Picture Card and Memory Stick formats.



See pages 217, 229 & 293

It's a Cinch with Cinch



Jameco now offers a wide range of high-density Cinch board and IDC connectors, ideal for digital applications with larger bit ranges. We've added over 400 new products, including high-quality edge connectors, terminal strips, bus jumpers, polarizing keys and much more.

Cinch

See pages 125, 126 & 133

Sparkle Power Supplies



Need an SATA compatible power supply? Look to Sparkle PC Power Supply's solutions for Pentium 4 and Athlon XP solutions.

Sparkle also offers medical-grade switching power supplies that comply with federal requirements for medical-grade safety, leakage current, and EMC. If your product has direct contact with a patient, Sparkle offers units that are approved by UL 60601, CSA C22.2 Level 3, and VDE EN6061-1.



See page 225

Extended-Option Keyboards



Cherry has your keyboard needs covered, whether you need traditional, notebook size, or special purpose keyboards. We also offer keyboards with POS magnetic card readers and bar code decoders. Ensure greater security with a Smart Card keyboard for logon. We even have Cherry's biometric-enabled keyboards for the tightest security applications.

See page 223

Now a Broader Wire Selection!



Belden CDT

Jameco just extended its line of quality Belden products, as well as adding more products from General Cable and AlphaWire. Now you can find a complete selection of shielded and unshielded twisted-pair and coaxial cable plus hookup wire from your favorite source for the lowest guaranteed prices!

See pages 87-91



Nearly 15,000 New Products In This Catalog!

Now 500% More Products

This catalog is all about the new products you need everyday. It's about better selection and as always, it's about our awesome prices in electronic components. We're proud to have added nearly 15,000 new products in just the last 3 months! Be sure to look at the products on the referenced pages & see how much you can save!

Manufacturer	Pages
Abbatron	99, 239, 293
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Amphenol	129
Avery Dennison	99
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CDE	64
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Cinch	106, 121, 125, 126, 133
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Etasis	225
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NTE	18
Panduit	99, 293
Potter & Brumfield	155, 156, 158
Rabbit	11-13
Raychem	101
Seasonic	225
Sparkle	225
Speco	162, 220, 235, 237
Switchcraft	103-105, 148
TechSpray	269
Volex	205
Western Digital	214
Zynet	221

A New Way to Save with ValuePro™

Now small and medium-sized OEMs have a competitive edge! Jameco's recently introduced ValuePro line of passive, electro-mechanical and interconnect products are high-quality electronic components, and they're guaranteed to be at the lowest prices you'll find. In fact, if you find a lower print-advertised price, we'll beat it by another 10%, right down to our cost.

No more high-priced brand markup... no more costly layers of distribution... no more restrictive franchise agreements that hold

minimum prices high. Instead, Jameco cuts out the costly markups and layers of distribution, and sells its products direct to you, so you can put the savings back in your wallet!

With over 30 years of experience sourcing and qualifying products from around the world, Jameco is distinctly qualified to provide the highest quality products. We're extremely selective in choosing our sources, so we'll protect you



from counterfeit and poor-quality suppliers.

For over 30 years, Jameco has been focused on helping its customers save money. We continue to scour the world, looking for the best deals in quality electronic components and passing the savings to our customers. Jameco ValuePro is just another way we'll help you compete in this ever-changing economy. Be sure to look through this catalog for the thousands of ValuePro products available today at Jameco's awesome prices!

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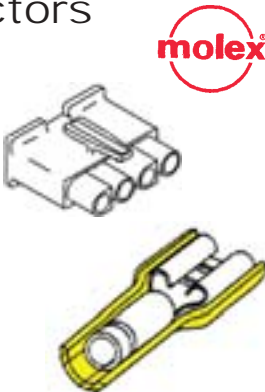


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molex

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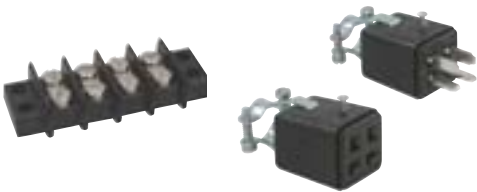
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Cherry Switches

Cherry is a global leader in the design, development, and manufacture of computer keyboards, snap-action and rocker switches, magnetic sensors and much more. Now their products are offered by the leader in low-price value! Be sure to flip through the catalog for the above products, plus you'll also find pushbutton, paddle and pushwheel switches! Looking for magnetic geartooth or proximity sensors? Be sure to check out pages 162 and 163 for those and much more!



See pages 144-147, 149, 162, 223

Time-Honored Alcoswitch Products

Now you can get over 500 Alcoswitch products in consumer, instrument and industrial grades from Jameco! Be sure to check out our offering of Oil-tight RM and RT series pushbutton switches, as well as Alcoswitch's more common lines of pushbutton, slide, rotary, keylock and magnetic reed switches. Jameco now also offers the Alcoswitch line of switch accessories, including splash-proof boot seals, panel seals, caps and guards.



Alcoswitch

See pages 145, 148, 150, 163

Advanced Technology CDE Capacitors

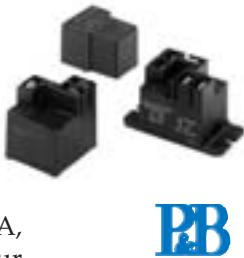
Jameco just added over 1,200 CDE capacitors for advanced technology applications. CDE's lines include aluminum, tantalum and mica chemistries in traditional thru-hole and surface-mount configurations. Their dipped mica capacitors use pure India Ruby muscovite mica to improve stability, reliability, and efficiency. Metallized polyester capacitors are an excellent choice for general purpose applications like blocking, bypass, and arc suppression, while metallized polypropylene capacitors are designed for applications requiring low dielectric losses, high voltage capability and stable characteristics.



See page 64

Potter & Brumfield Relays

When you need a relay, look to P&B, the de facto relay standard. We offer the Plug-in/Panel Mount General Purpose relays in the K10, KHA, KRPA, and KU series. If your applications include process control, photocopier, and data processing, we also offer the KHAU series. The KRPA group is a 5 to 10 Amp general purpose relay using octal-type termination for quick installation. And when you need an enclosed relay, be sure to look at our selection of KUP relays.



See pages 155-158

C&K Switches



Now you can easily find ITT Industries' C & K line of quality pushbutton, slide, rocker, toggle, tactile, keylock, DIP, pushwheel, thumbwheel and other switches. Be sure to check out the pages listed below for everything from low-current subminiature devices to rugged, high-current products.

See pages 151, 152, 293

LED Mounting Hardware

With the proliferation of high-intensity LEDs, chances are your newer designs have more complex LED mounting requirements. Be sure to check out pages 56-58 and review our new LED products. You'll find light pipes for PCB and panel-mounted LEDs, PCB standoffs for 2 and 3 lead devices, professional panel lenses, Conxrite locking headers and much more.



See pages 56-58

Mounting Hardware Plus Test Plugs & Jacks

Looking for a broad selection of quality mounting hardware? Look no further than our Abbatron selection on page 293. We now offer a complete supply of spacers, standoffs, traditional screws, washers and nuts in various materials, as well as bumpers, chassis feet, grommets and solder lugs. We've even added a fine selection of Abbatron banana plugs & jacks, binding posts, patch cords, test probes, PCB test jacks and solder lug terminal strips.



See pages 98, 239, 293

Our Low-Price Guarantee



... and we like it that way! But it is offered for good reasons. We take our product sourcing and pricing very seriously.

Isn't Used Very Often ...

We search the world to bring you the lowest-priced, highest-quality electronic components. And most importantly, we want you to know we truly stand behind our prices!



5x More Product — Check it Out!

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Cherry Switches

Cherry is a global leader in the design, development, and manufacture of computer keyboards, snap-action and rocker switches, magnetic sensors and much more. Now their products are offered by the leader in low-price value! Be sure to flip through the catalog for the above products, plus you'll also find pushbutton, paddle and pushwheel switches! Looking for magnetic geartooth or proximity sensors? Be sure to check out pages 162 and 163 for those and much more!



See pages 144-147, 149, 162, 223

Time-Honored Alcoswitch Products

Now you can get over 500 Alcoswitch products in consumer, instrument and industrial grades from Jameco! Be sure to check out our offering of Oil-tight RM and RT series pushbutton switches, as well as Alcoswitch's more common lines of pushbutton, slide, rotary, keylock and magnetic reed switches. Jameco now also offers the Alcoswitch line of switch accessories, including splash-proof boot seals, panel seals, caps and guards.



Alcoswitch

See pages 145, 148, 150, 163

Advanced Technology CDE Capacitors

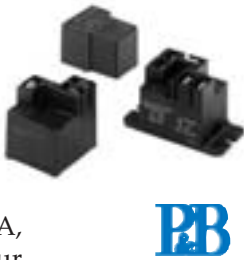
Jameco just added over 1,200 CDE capacitors for advanced technology applications. CDE's lines include aluminum, tantalum and mica chemistries in traditional thru-hole and surface-mount configurations. Their dipped mica capacitors use pure India Ruby muscovite mica to improve stability, reliability, and efficiency. Metallized polyester capacitors are an excellent choice for general purpose applications like blocking, bypass, and arc suppression, while metallized polypropylene capacitors are designed for applications requiring low dielectric losses, high voltage capability and stable characteristics.



See page 64

Potter & Brumfield Relays

When you need a relay, look to P&B, the de facto relay standard. We offer the Plug-in/Panel Mount General Purpose relays in the K10, KHA, KRPA, and KU series. If your applications include process control, photocopier, and data processing, we also offer the KHAU series. The KRPA group is a 5 to 10 Amp general purpose relay using octal-type termination for quick installation. And when you need an enclosed relay, be sure to look at our selection of KUP relays.



See pages 155-158

C&K Switches



Now you can easily find ITT Industries' C & K line of quality pushbutton, slide, rocker, toggle, tactile, keylock, DIP, pushwheel, thumbwheel and other switches. Be sure to check out the pages listed below for everything from low-current subminiature devices to rugged, high-current products.

See pages 151, 152, 293

LED Mounting Hardware

With the proliferation of high-intensity LEDs, chances are your newer designs have more complex LED mounting requirements. Be sure to check out pages 56-58 and review our new LED products. You'll find light pipes for PCB and panel-mounted LEDs, PCB standoffs for 2 and 3 lead devices, professional panel lenses, Conxrite locking headers and much more.



See pages 56-58

Mounting Hardware Plus Test Plugs & Jacks

Looking for a broad selection of quality mounting hardware? Look no further than our Abbatron selection on page 293. We now offer a complete supply of spacers, standoffs, traditional screws, washers and nuts in various materials, as well as bumpers, chassis feet, grommets and solder lugs. We've even added a fine selection of Abbatron banana plugs & jacks, binding posts, patch cords, test probes, PCB test jacks and solder lug terminal strips.



See pages 98, 239, 293

Our Low-Price Guarantee



... and we like it that way! But it is offered for good reasons. We take our product sourcing and pricing very seriously.

Isn't Used Very Often ...

We search the world to bring you the lowest-priced, highest-quality electronic components. And most importantly, we want you to know we truly stand behind our prices!



5x More Product — Check it Out!

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310973CE	PIC10F200-I/P	DIP-8	Flash	4	384	16	4 \$.88 \$.82
310981CE	PIC10F202-I/P	DIP-8	Flash	4	768	24	4 1.0394
311010CE	PIC10F204-I/P	DIP-8	Flash	4	384	16	4	..... 1.02	..... .94
311028CE	PIC10F206-I/P	DIP-8	Flash	4	768	24	4	..... 1.16	..... 1.08
145040CE	PIC12C508A-04/P	DIP-8	OTP	4	512	25	5	..... 1.49	..... .99
145058CE	PIC12C509A/JW	DIP-8	EPROM	4	1k	41	5	..... 12.95	..... 12.28
144258CE	PIC12C509A-04/P	DIP-8	OTP	4	1k	41	5	..... 1.49	..... 1.09
193455CE	PIC12C671-04/P	DIP-8	OTP	4	1k	128	6	..... 2.79	..... 2.42
193463CE	PIC12C672-04/P	DIP-8	OTP	4	2k	128	6	..... 2.79	..... 2.41
200475CE	PIC12CE518-04/P	DIP-8	OTP	4	512	25	6	..... 1.79	..... 1.55
200483CE	PIC12CE519-04/P	DIP-8	OTP	4	1k	41	6	..... 1.89	..... 1.69
248137CE	PIC12CE673-10/P	DIP-8	OTP	10	1k	128	5	..... 3.39	..... 3.19
248145CE	PIC12CE674-10/P	DIP-8	OTP	10	2k	128	5	..... 3.45	..... 2.99
223790CE	PIC12F629-I/P	DIP-8	Flash	20	1k	64	6	..... 1.59	..... 1.39
247193CE	PIC12F629-I/SN	SOIC-8	Flash	20	1k	64	6	..... 1.59	..... 1.41
312493CE	PIC12F635-I/P	DIP-8	Flash	20	2k	64	6	..... 1.79	..... 1.66
312506CE	PIC12F635-I/SN	SOIC-8	Flash	20	2k	64	6	..... 1.79	..... 1.66
223781CE	PIC12F675-I/P	DIP-8	Flash	20	1k	64	6	..... 1.99	..... 1.69
247206CE	PIC12F675-I/SN	SOIC-8	Flash	20	1k	64	6	..... 1.95	..... 1.66
312514CE	PIC12F683-I/P	DIP-8	Flash	20	4k	128	6	..... 2.19	..... 2.05
312522CE	PIC12F683-I/SN	SOIC-8	Flash	20	4k	128	6	..... 2.19	..... 2.05
247361CE	PIC14000-4/SP	DIP-28	OTP	4	4k	192	22	..... 11.99	..... 11.45
247370CE	PIC14000-4/SO	SOIC-28	OTP	4	4k	192	22	..... 11.65	..... 11.55
128338CE	PIC16C54A-04/P	DIP-18	OTP	4	512	25	12	..... 3.59	..... 2.59
247214CE	PIC16C54C-20/P	DIP-18	OTP	20	512	25	12	..... 2.35	..... 2.05
247222CE	PIC16C54C-20/SO	SOIC-18	OTP	20	512	25	12	..... 2.35	..... 2.15
247231CE	PIC16C54C-20/SS	SSOP-20	OTP	20	512	25	12	..... 2.55	..... 2.35
200416CE	PIC16C55A-04/P	DIP-28	OTP	4	512	24	20	..... 2.69	..... 2.23
247249CE	PIC16C55A-20/P	DIP-28	OTP	20	512	24	20	..... 2.95	..... 2.91
247257CE	PIC16C55A-20/SO	SOIC-28	OTP	20	512	24	20	..... 3.05	..... 2.75
134172CE	PIC16C56-RC/P	DIP-18	OTP	20	1k	25	12	..... 4.49	..... 3.69
247265CE	PIC16C56A-20/P	DIP-18	OTP	20	1k	25	12	..... 2.85	..... 2.55
247273CE	PIC16C56A-20/SO	SOIC-18	OTP	20	1k	25	12	..... 2.65	..... 2.35
193341CE	PIC16C57C-04/P	DIP-28	OTP	4	2k	72	20	..... 3.19	..... 2.09
247281CE	PIC16C57C-20/P	DIP-28	OTP	20	2k	72	20	..... 3.45	..... 3.05
247290CE	PIC16C57C-20/SO	SOIC-28	OTP	20	2k	72	20	..... 3.65	..... 3.25
247302CE	PIC16C58B-20/P	DIP-18	OTP	20	2k	73	12	..... 2.75	..... 2.45
247311CE	PIC16C58B-20/SO	SOIC-18	OTP	20	2k	73	12	..... 2.85	..... 2.55
247433CE	PIC16C62B-20/SO	SOIC-28	OTP	20	2k	128	22	..... 4.45	..... 3.95
247425CE	PIC16C62B-20/SP	DIP-28	OTP	20	2k	128	22	..... 4.45	..... 3.95
193324CE	PIC16C63A-20/SP	DIP-28	OTP	20	4k	192	22	..... 5.49	..... 4.84
247450CE	PIC16C65B-20/L	PLCC-44	OTP	20	4k	192	33	..... 7.85	..... 7.75
247441CE	PIC16C65B-20/P	DIP-40	OTP	20	4k	192	33	..... 6.79	..... 5.81
200424CE	PIC16C66-04/SP	DIP-18	OTP	4	8k	368	22	..... \$7.45 6.45	..... 5.95
247476CE	PIC16C66-20/ISO	SOIC-28	OTP	20	8k	368	22	..... 8.75	..... 7.75
247468CE	PIC16C66-20/SP	DIP-28	OTP	20	8k	368	22	..... 8.75	..... 7.75
247492CE	PIC16C67-20/L	PLCC-44	OTP	20	8k	368	33	..... 9.15	..... 8.95
247484CE	PIC16C67-20/P	DIP-40	OTP	20	8k	368	33	..... 8.75	..... 7.75
200432CE	PIC16C72A-04/SP	DIP-28	OTP	4	2k	128	22	..... 4.79	..... 4.39
247695CE	PIC16C72A-20/P	DIP-28	OTP	20	2k	128	22	..... 5.85	..... 5.15
247708CE	PIC16C72A-20/SO	SOIC-28	OTP	20	2k	128	22	..... 5.85	..... 5.15
200441CE	PIC16C73A-04/SP	DIP-28	OTP	4	4k	192	22	..... 8.65	..... 7.79
145091CE	PIC16C74A/JW	DIP-40	EPROM	20	14k	192	33	..... 19.95	..... 17.99
200459CE	PIC16C505-04/P	DIP-14	OTP	20	1k	72	12	..... 1.99	..... 1.29
247329CE	PIC16C505-20/P	DIP-14	OTP	20	1k	72	11	..... 2.05	..... 1.87
247337CE	PIC16C505-20/SL	SOIC-14	OTP	20	1k	72	11	..... 1.99	..... 1.78
247388CE	PIC16C554-4/P	DIP-18	OTP	4	512	80	13	..... 3.75	..... 3.72
247396CE	PIC16C554-4/SO	SOIC-18	OTP	4	512	80	13	..... 3.85	..... 3.80
247409CE	PIC16C558-20/P	DIP-18	OTP	20	2k	128	13	..... 4.99	..... 4.84
247417CE	PIC16C558-20/SO	SOIC-18	OTP	20	2k	128	13	..... 4.95	..... 4.92
247505CE	PIC16C620A-20/P	DIP-18	OTP	20	512	96	13	..... 2.25	..... 2.05
247513CE	PIC16C620A-20/SO	SOIC-18	OTP	20	512	96	13	..... 2.35	..... 2.05
247521CE	PIC16C621A-20/P	DIP-18	OTP	20	1k	96	13	..... 2.55	..... 2.49
247530CE	PIC16C621A-20/SO	SOIC-18	OTP	20	1k	96	13	..... 2.59	..... 2.53
193383CE	PIC16C622A-04/P	DIP-18	OTP	4	2k	128	13	..... 2.69	..... 2.29

Thousands of new ICs are in the pipeline for addition and not shown below. Call us to see if you can save 10-20%.

MICROCHIP PIC Microcontrollers SSOP PLCC TQFP

Part No.	Product No.	Pkg.	Memory	Speed (MHz)	ROM Words	RAM Bytes	I/O Pins	1	25
247548CE	PIC16C622A-20I/P	DIP-18	OTP	20	2k	128	13	\$3.15	\$2.96
247556CE	PIC16C622A-20I/SO	SOIC-18	OTP	20	2k	128	13	3.25	2.85
247581CE	PIC16C710-20/P	DIP-18	OTP	20	512	36	13	3.95	3.05
193359CE	PIC16C711-04/P	DIP-18	OTP	4	1k	68	13	3.99	2.29
247599CE	PIC16C711-20/P	DIP-18	OTP	20	1k	68	13	4.65	3.60
247601CE	PIC16C711-20/SO	SOIC-18	OTP	20	1k	68	13	4.75	3.66
247610CE	PIC16C712-20/P	DIP-18	OTP	20	1k	128	13	3.45	2.85
247628CE	PIC16C712-20/SO	SOIC-18	OTP	20	1k	128	13	3.55	2.95
200467CE	PIC16C715-04/P	DIP-18	OTP	4	2k	128	13	4.49	4.09
247636CE	PIC16C715-20/P	DIP-18	OTP	20	2k	68	13	4.75	3.66
247644CE	PIC16C715-20/SO	SOIC-18	OTP	20	2k	68	13	4.85	4.05
247652CE	PIC16C716-20I/P	DIP-18	OTP	20	2k	128	13	4.25	3.25
247661CE	PIC16C716-20I/SO	SOIC-18	OTP	20	2k	128	13	4.25	3.35
247679CE	PIC16C717-I/P	DIP-20	OTP	20	2k	256	16	4.15	3.15
247687CE	PIC16C717-SO	SOIC-20	OTP	20	2k	256	16	3.75	2.95
247804CE	PIC16C745-I/SO	SOIC-28	OTP	24	8k	256	22	5.15	3.95
247791CE	PIC16C745-I/SP	DIP-28	OTP	24	8k	256	22	5.15	3.95
247821CE	PIC16C765-I/L	PLCC-44	OTP	24	8k	256	33	6.39	5.99
247812CE	PIC16C765-I/P	DIP-40	OTP	24	8k	256	33	6.09	4.71
247716CE	PIC16C770-I/P	DIP-20	OTP	20	2k	256	16	4.15	3.15
247724CE	PIC16C770-SO	SOIC-20	OTP	20	2k	256	16	3.69	2.85
247732CE	PIC16C771-I/P	DIP-20	OTP	20	2k	256	16	4.45	3.45
247741CE	PIC16C771-I/SO	SOIC-20	OTP	20	2k	256	16	4.55	3.45
247759CE	PIC16C773-I/SP	DIP-28	OTP	20	4k	256	22	7.05	6.25
247767CE	PIC16C773-I/SO	SOIC-28	OTP	20	4k	256	22	7.05	6.25
247783CE	PIC16C774-I/L	PLCC-44	OTP	20	4k	256	33	9.65	9.59
247775CE	PIC16C774-I/P	DIP-40	OTP	20	4k	256	33	8.49	7.56
247847CE	PIC16C923-04I/L	PLCC-68	OTP	4	4k	176	52	6.75	6.41
312531CE	PIC16F54-I/P	DIP-18	Flash	20	512	25	12	1.79	1.73
312549CE	PIC16F54-I/SO	SOIC-18	Flash	20	512	25	12	1.79	1.73
312557CE	PIC16F57-I/P	DIP-28	Flash	20	2k	72	20	2.39	2.29
312565CE	PIC16F57-I/SO	SOIC-28	Flash	20	2k	72	20	2.29	2.21
312661CE	PIC16F72-I/SO	SOIC-18	Flash	20	2k	128	13	3.15	2.90
312653CE	PIC16F72-I/SP	DIP-28	Flash	20	2k	128	13	3.15	2.90
193391CE	PIC16F73-I/SP	DIP-28	Flash	20	4k	192	5	5.19	4.19
246801CE	PIC16F73-I/SO	SOIC-28	Flash	20	4k	192	22	5.15	4.55
246810CE	PIC16F73-I/SS	SSOP-28	Flash	20	4k	192	22	5.25	4.65
246772CE	PIC16F74-I/L	PLCC-44	Flash	20	4k	192	33	6.95	6.45
193404CE	PIC16F74-I/P	DIP-40	Flash	20	4k	192	8	6.19	5.47
246781CE	PIC16F74-I/P	TQFP-44	Flash	20	4k	192	33	7.45	6.55
246828CE	PIC16F76-I/SO	SOIC-28	Flash	20	8k	368	22	6.35	5.65
193412CE	PIC16F76-I/SP	DIP-28	Flash	20	8k	368	5	6.49	5.65
246836CE	PIC16F76-I/SS	SSOP-28	Flash	20	8k	368	22	6.49	5.79
246799CE	PIC16F77-I/L	PLCC-44	Flash	20	8k	368	33	7.85	7.34
193421CE	PIC16F77-I/P	DIP-40	Flash	20	8k	368	8	7.09	5.89

Programming & Customizing PICmicro Microcontrollers

Second Edition

McGraw-Hill Details the features of the PICmicro® and how to use these embedded chips to access and control many different devices. Shows what happens within the PICmicro® when an instruction is executed and how it interfaces with external devices. (1190 pages, 2001)

Includes: CD-ROM and PIC PCB

Part No.	Description	Size	Wt. (lbs.)	Price
183046CE	PICmicro Programming	9.2" x 7.3"	4.0	\$49.95

Time'n and Count'n

Intermediate Level PIC Applications

Square 1 Publishing This book previously appeared in PIC'n Techniques book. The more current PIC16F870 is substituted for the PIC16C63. Topics such as test equipment for timing & counting experiments to using timer 1 & 2, and capture/compare/PWM as well as programs are included in this book. (218 pages, 2002)

Part No.	Description	Size	Wt. (lbs.)	Price
210489CE	Time'n and Count'n	8.5" x 11.0"	1.4	\$34.95

Color Code Legend
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MICROCHIP PIC Microcontrollers DIP SOIC

Part No.	Product No.	Pkg.	Memory	Speed (MHz)	ROM Words	RAM Bytes	I/O Pins	1	25
145111CE	PIC16F84-04/P	DIP-18	Flash	4	1k	68	13	\$6.59	\$4.39
145120CE	PIC16F84-10/P	DIP-18	Flash	10	1k	68	13	7.09	6.49
193332CE	PIC16F84A-20/P	DIP-18	Flash	20	1k	68	13	5.79	4.79
246844CE	PIC16F84A-20/SO	SOIC-18	Flash	20	1k	68	13	5.75	5.05
246852CE	PIC16F84A-20/SS	SSOP-20	Flash	20	1k	68	13	6.15	5.75
246861CE	PIC16F84A-20I/P	DIP-18	Flash	20	1k	68	13	6.25	5.55
246879CE	PIC16F84A-20I/SO	SOIC-18	Flash	20	1k	68	13	6.35	5.55
246887CE	PIC16F84A-20I/SS	SSOP-20	Flash	20	1k	68	13	6.75	6.25
247097CE	PIC16F87-I/P	DIP-18	Flash	20	4k	368	16	4.05	3.15
247100CE	PIC16F87-I/SO	SOIC-18	Flash	20	4k	368	16	3.95	3.15
247118CE	PIC16F87-I/SS	SSOP-20	Flash	20	4k	368	16	3.95	3.65
312733CE	PIC16F88-I/P	DIP-18	Flash	20	7k	368	16	4.15	3.35
312741CE	PIC16F88-I/SO	SOIC-18	Flash	20	7k	368	16	4.25	3.42
323096CE	PIC16F505-I/P	DIP-14	Flash	20	1k	72	12	1.65	1.49
193439CE	PIC16F627-20/P	DIP-18	Flash	20	1k	224	16	3.29	2.55
193447CE	PIC16F628-20/P	DIP-18	Flash	20	2k	224	16	3.69	2.69
246730CE	PIC16F628-20/SO	SOIC-18	Flash	20	2k	224	16	3.69	2.85
246748CE	PIC16F628-20/SS	SSOP-20	Flash	20	2k	224	16	4.05	3.15
246756CE	PIC16F628-20I/P	DIP-18	Flash	20	2k	224	16	4.05	3.15
246764CE	PIC16F628-20I/SO	SOIC-18	Flash	20	2k	224	16	4.09	3.17
223749CE	PIC16F630-I/P	DIP-14	Flash	20	1k	64	12	1.89	1.59
247126CE	PIC16F630-I/SL	SOIC-14	Flash	20	1k	128	12	1.85	1.65
247134CE	PIC16F630-I/ST	TSSOP-14	Flash	20	1k	128	12	2.05	1.85
312573CE	PIC16F636-I/P	DIP-14	Flash	20	2k	128	12	2.09	1.91
312581CE	PIC16F636-I/ST	TSSOP-14	Flash	20	2k	128	12	2.19	2.02
247142CE	PIC16F648A-I/P	DIP-18	Flash	20	4k	256	16	3.25	2.55
247151CE	PIC16F648A-I/SO	SOIC-18	Flash	20	4k	256	16	3.25	2.55
247169CE	PIC16F648A-I/SS	SSOP-20	Flash	20	4k	256	16	3.59	2.78
223757CE	PIC16F676-I/P	DIP-14	Flash	20	1k	64	12	2.19	1.79
247177CE	PIC16F676-I/SL	SOIC-14	Flash	20	1k	64	12	2.15	1.95
247185CE	PIC16F676-I/ST	TSSOP-14	Flash	20	1k	64	12	2.35	2.09
312590CE	PIC16F684-I/P	DIP-14	Flash	20	2k	128	12	2.35	2.17
312602CE	PIC16F684-I/ST	TSSOP-14	Flash	20	2k	128	12	2.59	2.37
312611CE	PIC16F688-I/P	DIP-14	Flash	20	4k	256	12	2.79	2.59
312629CE	PIC16F688-I/ST	TSSOP-14	Flash	20	4k	256	12	3.05	2.79
312637CE	PIC16F716-I/P	DIP-28	Flash	20	2k	128	13	2.35	2.17
312645CE	PIC16F716-I/SO	SOIC-18	Flash	20	2k	128	13	2.35	2.17
312688CE	PIC16F737-I/SO	SOIC-28	Flash	20	4k	368	25	5.55	4.75
312670CE	PIC16F737-I/SP	DIP-28	Flash	20	4k	368	25	5.39	4.65
312696CE	PIC16F747-I/P	DIP-40	Flash	20	4k	368	36	6.45	5.45
312717CE	PIC16F767-I/SO	SOIC-28	Flash	20	8k	368	25	6.69	5.62
312709CE	PIC16F767-I/SP	DIP-28	Flash	20	8k	368	25	6.29	5.36
312725CE	PIC16F777-I/P	DIP-40	Flash	20	8k	368	36	6.89	6.05
223765CE	PIC16F818-I/P	DIP-18	Flash	20	1k	128	16	3.09	2.36
247054CE	PIC16F818-I/SO	SOIC-18	Flash	20	1k	128	16	3.15	2.45
247062CE	PIC16F818-I/SS	SSOP-20	Flash	20	1k	128	16	3.35	2.65
223773CE	PIC16F819-I/P	DIP-18	Flash	20	2k	256	16	3.59	2.69
247089CE	PIC16F819-I/SO	SOIC-18	Flash	20	2k	256	16	3.55	2.75
247071CE	PIC16F819-I/SS	SSOP-20	Flash	20	2k	256	16	3.85	2.95
246908CE	PIC16F870-I/SO	SOIC-28	Flash	20	2k	128	22	4.35	3.87
246895CE	PIC16F870-I/SP	DIP-28	Flash	20	2k	128	22	4.35	3.69
246916CE	PIC16F870-I/SS	SSOP-28	Flash	20	2k	128	22	4.49	3.99
246932CE	PIC16F871-I/L	PLCC-44	Flash	20	2k	128	33	5.85	5.65
246924CE	PIC16F871-I/P	DIP-40	Flash	20	2k	128	33	5.15	4.25
246959CE	PIC16F872-I/SO	SOIC-28	Flash	20	2k	128	22	4.05	3.88
246941CE	PIC16F872-I/SP	DIP-28	Flash	20	2k	128	22	4.35	3.69
246967CE	PIC16F872-I/SS	SSOP-28	Flash	20	2k	128	22	4.15	3.99

Easy Microcontrol'n

Beginners Guide (Version 4)

Square 1 Publishing A revision of and successor to Easy PIC'n that covers Peripheral Interface Controller (PIC) PIC16F84, writing programs, interrupts, timing and counting. (178 pages, 2002)

Part No.	Description	Size	Weight	Price
215061CE	Easy Microcontrol'n	8.5" x 11.0"	1.2 lbs.	\$29.95

Thousands of new ICs are in the pipeline for addition and not shown below. Call us to see if you can save 10-20%.

MICROCHIP PIC Microcontrollers

Part No.	Product No.	Pkg.	Memory	Speed (MHz)	ROM Words	RAM Bytes	I/O Pins	1	25
246983CE	PIC16F873A-I/SO	SOIC-28	Flash	20	4k	192	22	\$5.95	\$5.55
246975CE	PIC16F873A-I/SP	DIP-28	Flash	20	4k	192	22	6.29	5.19
247003CE	PIC16F874A-I/L	PLCC-44	Flash	20	4k	192	33	7.55	7.05
246991CE	PIC16F874A-I/P	DIP-40	Flash	20	4k	192	33	6.75	5.95
247020CE	PIC16F876A-I/SO	SOIC-28	Flash	20	8k	368	22	6.15	5.85
247011CE	PIC16F876A-I/SP	DIP-28	Flash	20	8k	368	22	6.65	5.85
193367CE	PIC16F876-20/SP	DIP-28	Flash	20	256	368	22	7.89	6.69
247046CE	PIC16F877A-I/L	PLCC-44	Flash	20	8k	368	33	8.15	7.65
247038CE	PIC16F877A-I/P	DIP-40	Flash	20	8k	368	33	7.25	5.05
176882CE	PIC16F877-20/P	DIP-40	Flash	20	256	368	33	9.49	8.49
247345CE	PIC16HV540-20/P	DIP-18	OTP	20	512	25	12	2.35	2.05
247353CE	PIC16HV540-20/SO	SSOP-20	OTP	20	512	25	12	2.35	2.22
247880CE	PIC17C42A-16/L	PLCC-44	OTP	16	2k	232	33	10.39	9.99
247871CE	PIC17C42A-16/P	DIP-40	OTP	16	2k	232	33	9.39	7.32
247901CE	PIC17C43-25/L	PLCC-44	OTP	25	4k	454	33	13.85	12.95
247898CE	PIC17C43-25/P	DIP-40	OTP	25	4k	454	33	11.85	10.45
247927CE	PIC17C44-33/L	PLCC-44	OTP	33	8k	454	33	15.39	14.74
247919CE	PIC17C44-33/P	DIP-40	OTP	33	8k	454	33	14.75	12.99
247935CE	PIC17C752-33/L	PLCC-68	OTP	33	8k	678	50	13.95	13.57
247943CE	PIC17C756A-33/L	PLCC-68	OTP	33	16k	902	50	16.05	15.59
247951CE	PIC17C762-16/L	PLCC-84	OTP	33	8k	678	66	16.75	16.65
247960CE	PIC17C766-33/L	PLCC-84	OTP	33	16k	902	66	19.25	18.73
200491CE	PIC18C242-I/SP	DIP-28	OTP	40	16k	512	23	7.29	6.57
200504CE	PIC18C252-I/SP	DIP-28	OTP	40	32k	1536	23	7.75	6.95
200512CE	PIC18C452-I/P	DIP-40	OTP	40	32k	1536	23	8.85	7.49
200521CE	PIC18C452/JW	DIP-40	EPROM	40	32k	1536	23	22.85	20.55
247986CE	PIC18F242-I/SO	SOIC-28	Flash	40	8k	768	23	7.39	6.61
247978CE	PIC18F242-I/SP	DIP-28	Flash	40	8k	768	23	7.39	6.61
312291CE	PIC18F248-I/SO	SOIC-28	Flash	40	16k	768	22	8.49	7.85
312282CE	PIC18F248-I/SP	DIP-28	Flash	40	16k	768	22	8.49	8.13
248006CE	PIC18F252-I/SO	SOIC-28	Flash	40	16k	1536	23	8.05	7.20
247994CE	PIC18F252-I/SP	DIP-28	Flash	40	16k	1536	23	8.05	7.20
248022CE	PIC18F258-I/SO	SOIC-28	Flash	40	16k	1536	23	9.65	8.62
248014CE	PIC18F258-I/SP	DIP-28	Flash	40	16k	1536	23	9.65	8.62
248081CE	PIC18F442-I/L	PLCC-44	Flash	40	8k	768	34	9.59	8.63
248073CE	PIC18F442-I/P	DIP-40	Flash	40	8k	768	34	8.15	7.35
312477CE	PIC18F448-I/L	PLCC-44	Flash	40	16k	768	33	9.65	9.46
312469CE	PIC18F448-I/P	DIP-40	Flash	40	16k	768	33	8.69	8.33
248049CE	PIC18F452-I/L	PLCC-44	Flash	40	16k	1536	34	10.29	9.26
248031CE	PIC18F452-I/P	DIP-40	Flash	40	16k	1536	34	8.85	7.99
248090CE	PIC18F1220-I/P	DIP-18	Flash	40	2k	256	16	4.35	3.89
248010CE	PIC18F1220-I/SO	SOIC-18	Flash	40	2k	256	16	4.35	3.89
248111CE	PIC18F1320-I/P	DIP-18	Flash	40	4k	256	16	4.89	4.40
248129CE	PIC18F1320-I/SO	SOIC-18	Flash	40	4k	256	16	4.89	4.40
311861CE	PIC18F2220-I/SP	DIP-28	Flash	40	4k	512	25	6.69	6.15
311917CE	PIC18F2320-I/SO	SOIC-28	Flash	40	8k	512	25	7.05	6.65
311909CE	PIC18F2320-I/SP	DIP-28	Flash	40	8k	512	25	7.05	6.64
311984CE	PIC18F2331-I/SO	SOIC-28	Flash	40	8k	512	25	7.79	7.17
311950CE	PIC18F2331-I/SP	DIP-28	Flash	40	8k	768	24	7.85	7.21
312098CE	PIC18F2431-I/SO	SOIC-28	Flash	40	16k	768	24	8.05	7.45
312071CE	PIC18F2431-I/SP	DIP-28	Flash	40	16k	768	24	8.09	7.46
312274CE	PIC18F2439-I/SO	SOIC-28	Flash	40	12k	640	21	7.09	6.79
312231CE	PIC18F2439-I/SP	DIP-28	Flash	40	12k	640	21	7.09	6.79

MICROCHIP PIC Microcontrollers

Part No.	Product No.	Pkg.	Memory	Speed (MHz)	ROM Words	RAM Bytes	I/O Pins	1	25
312311CE	PIC18F2525-I/SO	SOIC-28	Flash	40	48k	3986	25	\$8.75	\$7.70
312303CE	PIC18F2525-I/SP	DIP-28	Flash	40	48k	3986	25	9.05	8.31
312346CE	PIC18F2539-I/SO	SOIC-28	Flash	40	24k	1408	21	7.75	7.10
312338CE	PIC18F2539-I/SP	DIP-28	Flash	40	24k	1408	21	7.69	7.40
312400CE	PIC18F4220-I/P	DIP-40	Flash	40	4k	512	36	7.15	7.05
312426CE	PIC18F4320-I/P	DIP-40	Flash	40	8k	512	36	7.95	7.60
312434CE	PIC18F4331-I/P	DIP-40	Flash	40	8k	768	36	8.89	7.86
312451CE	PIC18F4431-I/P	DIP-40	Flash	40	16k	768	36	8.85	8.15
312442CE	PIC18F4439-I/P	DIP-40	Flash	40	12k	640	32	7.89	7.55
312485CE	PIC18F4539-I/P	DIP-40	Flash	40	24k	1408	32	8.55	8.18
248065CE	PIC18F458-I/L	PLCC-44	Flash	40	16k	1536	34	11.15	10.05
248057CE	PIC18F458-I/P	DIP-40	Flash	40	16k	1536	34	9.79	8.75

ATMEL Microcontrollers

Part No.	Product No.	Pkg.	Description	1	25
248330CE	ATMEGA8-16PI	DIP-28	8-bit MCU, 16MHz 8kB flash	\$5.25	\$4.41
323133CE	ATMEGA16-16PI	DIP-40	8-bit AVR MCU, 16MHz w/ 16kB prog flash	6.25	3.91
248153CE	ATTINY11-6PC	DIP-8	8-bit MCU, 6MHz 1kB flash	1.48	1.32
248161CE	ATTINY11-6SI	SOIC-8	8-bit MCU, 6MHz 1kB flash	1.79	1.51
248170CE	ATTINY12-8PC	DIP-8	8-bit MCU, 8MHz 1kB flash	1.85	1.39
248188CE	ATTINY12-8SI	SOIC-8	8-bit MCU, 8MHz 1kB flash	1.99	1.49
248196CE	ATTINY15L-1PC	DIP-8	8-bit MCU, 1.6MHz 1kB flash	2.99	2.24
248209CE	ATTINY15L-1SI	SOIC-8	8-bit MCU, 1.6MHz 1kB flash	2.99	2.53
248217CE	ATTINY26-16PC	DIP-20	8-bit MCU, 16MHz 2kB flash	2.49	1.87
248225CE	ATTINY26-16SI	SOIC-20	8-bit MCU, 16MHz 2kB flash	2.59	2.09
248233CE	ATTINY28L-4PC	DIP-28	8-bit MCU, 4MHz 2kB flash	2.25	2.04
248348CE	ATMEGA8515-16JI	PLCC-44	8-bit MCU, 16MHz 8kB flash	5.19	4.99
323141CE	ATMEGA8515-16PC	DIP-40	8-bit AVR MCU, 16MHz w/ 8kB prog. flash	4.59	3.40
395621CE	ATMEGA8515L-8PC	DIP-40	8-bit AVR MCU, 8MHz 8kB prog. flash	8.85	7.95
168866CE	AT89C1051-24PC	DIP-20	8-bit MCU, 24MHz 1kB flash mem.	2.65	2.15
168874CE	AT89C2051-24PC	DIP-20	8-bit MCU, 24MHz 2kB flash mem.	2.49	2.39
265332CE	AT89C2051-12PC	DIP-20	8-bit MCU, 12MHz 2kB flash MCU mem.	3.29	2.85
204089CE	AT89C4051-24PC	DIP-20	8-bit MCU, 24MHz 4kB flash mem. 8-bit	2.99	1.69
323109CE	AT89C4051-24SC	SOIC-20	8-bit MCU, 24MHz 4kB flash mem	2.05	1.51
168911CE	AT89C51-24JC	PLCC-44	8-bit MCU w/ 4kB flash	3.79	3.39
168903CE	AT89C51-24PC	DIP-40	8-bit MCU, 24MHz 4kB flash memory	4.49	3.99
168920CE	AT89C52-24PC	DIP-40	8-bit MCU, 24MHz 8kB flash memory	3.39	2.79
355830CE	AT89S51-24PC	DIP-40	8-bit MCU, 4kB programmable flash	2.25	2.20
220871CE	AT89S52-24JI	PLCC-44	8-bit MCU, 8kB programmable flash	3.99	3.69
323117CE	AT89S53-24JI	PLCC-44	8-bit MCU, 24MHz 12kB flash mem	4.85	3.86
168946CE	AT89C55WD-24PC	DIP-40	8-bit MCU, 24MHz 20kB flash memory	6.99	6.79
323125CE	AT89S8252-24JI	PLCC-44	8-bit MCU, 24MHz 8kB flash mem	4.85	3.63
204097CE	AT89S8252-24PC	DIP-40	8-bit MCU, 24MHz 8kB flash mem. 2kB EEPROM	4.69	3.69
204100CE	AT90S1200-12PC	DIP-20	20 AVR 8-bit RISC MCU, 12MHz 1kB prog. flash	2.25	1.68
248241CE	AT90S1200A-12SC	SOIC-20	8-bit AVR MCU, 12MHz 1kB prog. flash	2.89	2.56
248250CE	AT90S2313-10PC	DIP-20	8-bit AVR MCU, 10MHz 2kB prog. flash	3.25	2.69
248268CE	AT90S2313-10SI	SOIC-20	8-bit AVR MCU, 10MHz 2kB prog. flash	2.65	2.39
204118CE	AT90S2323-10PC	DIP-8	8-bit AVR MCU, 10MHz 2kB prog. flash	2.95	2.20
248276CE	AT90S2323-10SI	SOIC-8	8-bit AVR MCU, 10MHz 2kB prog. flash	3.25	2.87
248284CE	AT90S2343-10PC	DIP-8	8-bit AVR MCU, 10MHz 2kB prog. flash	2.99	2.24
248292CE	AT90S2343-10SI	SOIC-8	8-bit AVR MCU, 10MHz 2kB prog. flash	3.49	2.87

Serial Communications

Serial Communications PIC Applications

Square 1 Publishing Topics such as asynchronous serial communications, RS242 standard, ASCII character code, bit-bang asynchronous communications and synchronous serial communications to name a few are covered in this book as well as tool box modules and applications. (566 pages, 2002)

• Size: 8.6" x 11.0" • Weight: 3.5 lbs.

Part No.	Description	Price
210497CE	Serial Communications	\$49.95

Microcontrol'n Apps

PIC Microcontroller Applications (Version 2)

Square 1 Publishing This book is a revision of and the successor to PIC'n Up The Pace. Materials covered in the book include talking to a PIC microcontroller with a PC running a terminal, simple data logger and digital volt-meter experiment, PIC16F87x and 10-bit A/D conversion. (437 pgs, 2002)

• Size: 8.5" x 11.0" • Weight: 1.7 lbs.

Part No.	Description	Price
215052CE	Microcontrol'n Apps	\$44.95

PIC Microcontroller Project Book

Comprehensive Beginner's Guide

McGraw-Hill Hands-on directions for putting Microchip's RISC-based chips with up to 8k of memory to work. Starting with simple projects and experiments, this book leads you gradually into sophisticated programming techniques. Provides you guidance on getting the equipment you need and programming your chip. (203 pages, 2000) • Size: 7.3" x 9.2" • Wt.: 1.0 lbs.

Part No.	Description	Price
174650CE	PIC Beginner's Guide	\$29.95

Microcontrollers and Microprocessors

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Microcontrollers

SSOP



Part No.	Product No.	Pkg.	Description	1	10	100
248663CE	MSP430F1121AIPW	SSOP-20	MCU, flash 8MHz 8k ROM, 15 I/O	\$3.55	\$3.30	\$3.00
248680CE	MSP430F1231PW	SSOP-28	MCU, flash 8MHz 8k ROM, 15 I/O	4.65	4.23	3.85



16-Bit Digital Signal Converters

dsPIC

The dsPIC® Digital Signal Controller (DSC) from Microchip is a powerful 16-bit (data) modified Harvard RISC machine that combines the control advantages of a high-performance 16-bit microcontroller (MCU) with the high computation speed of a fully implemented digital signal processor (DSP) to produce a tightly coupled single-chip single-instruction stream solution for embedded systems design. All integrate Flash program memory and most have EEPROM data storage.



DIP



SOIC



TQFP

Part No.	Product No.	Pkg.	Memory	Speed (MHz)	MIPS	Program Mem. Bytes	SRAM Bytes	1	25
321787CE	DSPIC30F2010-20/SOG	SOIC-28	Flash	40	20	12k	512	\$9.25	\$7.89
321779CE	DSPIC30F2010-20/SPG	DIP-28	Flash	40	20	12k	512	9.19	7.90
321808CE	DSPIC30F2010-30/SOG	SOIC-28	Flash	40	30	12k	512	10.69	9.09
321795CE	DSPIC30F2010-30/SPG	DIP-28	Flash	40	30	12k	512	10.79	9.09
321816CE	DSPIC30F6010-20/PF	TQFP-80	Flash	40	20	144k	8192	27.65	22.75
321824CE	DSPIC30F6010-30/PF	TQFP-80	Flash	40	30	144k	8192	28.99	26.15
321832CE	DSPIC30F6011-20/PF	TQFP-64	Flash	40	20	132k	6144	23.29	18.79
321841CE	DSPIC30F6011-30/PF	TQFP-64	Flash	40	30	132k	6144	26.79	21.65
321859CE	DSPIC30F6012-20/PF	TQFP-64	Flash	40	20	144k	8192	25.79	20.99
321867CE	DSPIC30F6012-30/PF	TQFP-64	Flash	40	30	144k	8192	29.89	24.15
323053CE	DSPIC30F6013-20/PF	TQFP-80	Flash	40	20	132k	6144	24.75	19.95
323061CE	DSPIC30F6013-30/PF	TQFP-80	Flash	40	30	132k	6144	28.45	22.95
323070CE	DSPIC30F6014-20/PF	TQFP-80	Flash	40	20	144k	8192	27.39	22.15
323088CE	DSPIC30F6014-30/PF	TQFP-80	Flash	40	30	144k	8192	31.35	25.49

PIC BASIC Programming and Projects

Newnes Publications The BASIC language, is introduced from square one, with simple code used to illustrate each of the most commonly used instructions. PIC BASIC is the simplest and quickest way to get up and running – designing and building circuits using a microcontroller. (210 pages, 2001)



Part No.	Description	Size	Weight	1	10
200168CE	PIC BASIC Programming	6.1" x 9.2	0.8 lbs.	\$36.95	\$35.36



Zilog Flash MCUs

DIP



Part No.	Cross Ref.	Pkg.	Description	1	10	100
280268CE	Z8F1601PM020SC	DIP-40	16kB ROM, 2kB RAM, 31 I/O, A/D	\$10.95	\$10.25	\$9.65
280276CE	Z8F1601VN020SC	PLCC-44	16kB ROM, 2kB RAM, 31 I/O, A/D	10.99	10.30	9.64
280284CE	Z8F1602VS020SC	PLCC-68	16kB ROM, 2kB RAM, 46 I/O, A/D	11.45	9.05	8.65
280292CE	Z8F2401PM020SC	DIP-40	24kB ROM, 2kB RAM, 31 I/O, A/D	12.65	11.75	10.85
280305CE	Z8F2401VN020SC	PLCC-44	24kB ROM, 2kB RAM, 31 I/O, A/D	12.65	11.75	10.85
280313CE	Z8F2402VS020SC	PLCC-68	24kB ROM, 2kB RAM, 46 I/O, A/D	13.15	10.35	9.85
280321CE	Z8F3201PM020SC	DIP-40	32kB ROM, 2kB RAM, 31 I/O, A/D	13.45	10.55	10.05
280330CE	Z8F3201VN020SC	PLCC-44	32kB ROM, 2kB RAM, 31 I/O, A/D	13.45	10.55	10.05
280348CE	Z8F3202VS020SC	PLCC-68	32kB ROM, 2kB RAM, 46 I/O, A/D	13.95	10.95	10.45
280356CE	Z8F4801PM020SC	DIP-40	48kB ROM, 4kB RAM, 31 I/O, A/D	15.19	11.85	11.35
280364CE	Z8F4801VN020SC	PLCC-44	48kB ROM, 4kB RAM, 31 I/O, A/D	15.15	11.85	11.35
280372CE	Z8F4802VS020SC	PLCC-68	48kB ROM, 4kB RAM, 46 I/O, A/D	15.65	12.35	11.75
280381CE	Z8F6401PM020SC	DIP-40	64kB ROM, 4kB RAM, 46 I/O, A/D	16.85	13.25	12.55
280399CE	Z8F6401VN020SC	PLCC-44	64kB ROM, 4kB RAM, 46 I/O, A/D	16.85	13.25	12.55
280401CE	Z8F6402VS020SC	PLCC-68	64kB ROM, 4kB RAM, 46 I/O, A/D	17.35	13.65	12.95



Z8 OTP MCUs

DIP



PLCC



SOIC



Part No.	Cross Ref.	Pkg.	Description	1	10	100
281228CE	Z86E3016PSC	DIP-28	RAM/ROM Protect, 24 I/O lines	\$6.59	\$4.99	\$4.15
281236CE	Z86E3016VSC	PLCC-28	RAM/ROM Protect, 24 I/O lines	4.59	4.35	4.15
281252CE	Z86E0812SSC1866	SOIC-18	ROM protect, 14 I/O lines	3.99	2.99	2.23
281279CE	Z86E0812PSC1866	DIP-18	ROM protect, 14 I/O lines	3.99	2.99	2.25
281287CE	Z86E0812PEC	DIP-18	ROM protect, 14 I/O lines	4.35	3.29	2.45
281295CE	Z86E0208SSC1925	SOIC-18	ROM protect, 14 I/O lines, 1 cntnr/timer	1.89	1.65	1.45



Zilog Z80 MPUs

DIP



PLCC



Part No.	Cross Ref.	Pkg.	Description	1	10	100
35561CE	Z80	DIP-40	2.5MHz CPU (MK3880N/780C)	\$1.39	\$1.19	\$1.09
35596CE	Z80A	DIP-40	4MHz CPU (MK3880N-4/780C-1)	1.99	1.79	1.59
35609CE	Z80A-CTC	DIP-28	4MHz counter timer circuit (MK3882-4)	1.99	1.79	1.59
35625CE	Z80A-DART	DIP-40	4MHz dual asynchronous receiver/trans.	3.49	3.19	2.89
35641CE	Z80A-PIO	DIP-40	4MHz parallel I/O interf. contr. (MK3881-4)	1.99	1.79	1.61
35668CE	Z80A-SIO/O	DIP-40	4MHz serial I/O (Tx/CB & Rx/CB bond.) MK3884-4	2.19	1.79	1.59
35705CE	Z80B	DIP-40	6MHz CPU (MK3880N-6)	2.59	2.39	2.09
280410CE	Z8018006PSC	DIP-64	Z180 MPU, MMU, DMA, UART, INTC	9.29	7.05	6.29
280428CE	Z8018006VSC	PLCC-68	Z180 MPU, MMU, DMA, UART, INTC	9.29	7.05	6.29
280436CE	Z8018008PSC	DIP-64	Z180 MPU, MMU, DMA, UART, INTC	9.69	7.35	6.29
280444CE	Z8018008VSC	PLCC-68	Z180 MPU, MMU, DMA, UART, INTC	9.95	7.45	6.25
280452CE	Z8018010PSC	DIP-64	Z180 MPU, MMU, DMA, UART, INTC	7.85	7.45	7.25
280461CE	Z8018010VSC	PLCC-68	Z180 MPU, MMU, DMA, UART, INTC	11.29	8.55	7.35
280479CE	Z8S18020PSC	DIP-64	Z180 MPU, MMU, DMA, UART, INTC	13.35	12.05	10.75
280487CE	Z8S18020VSC	PLCC-68	Z180 MPU, MMU, DMA, UART, INTC	12.95	9.79	8.05
280495CE	Z8S18033VSC	PLCC-68	Z180 MPU, MMU, DMA, UART, INTC	9.55	9.35	9.09
35781CE	Z84C00-4	DIP-40	4MHz CPU (Z84C0004PEC) CMOS	4.15	3.49	2.55
280508CE	Z84C0006VEC	PLCC-44	Z80 CPU with 3 mode int., 16 regs.	3.09	2.63	1.97
280516CE	Z84C0008PEC	DIP-40	Z80 CPU with 3 mode int., 16 regs.	3.25	2.76	2.07
280524CE	Z84C0008VEC	PLCC-44	Z80 CPU with 3 mode int., 16 regs.	3.29	2.80	2.10
280532CE	Z84C0010PEC	DIP-40	Z80 CPU with 3 mode int., 16 regs.	3.25	2.76	2.07
280541CE	Z84C0010VEC	PLCC-44	Z80 CPU with 3 mode int., 16 regs.	4.89	3.69	3.15
280559CE	Z84C0020VEC	PLCC-44	Z80 CPU with 3 mode int., 16 regs.	13.29	12.00	10.20
280567CE	Z84C4008PEC	DIP-40	Dual data ch. communication interface	7.25	6.16	4.62
280575CE	Z84C9010VSC	PLCC-84	Serial/parallel I/O counter/timer	16.75	14.45	12.65
35799CE	Z8530	DIP-40	2MHz serial communications controller	2.49	2.12	1.59
281308CE	Z85C3016PSC	DIP-40	Serial communications controller	13.79	10.45	8.37
61786CE	Z85C3008PSC	DIP-40	Serial communications controller	5.69	5.19	4.39
281316CE	Z85C3008VSC	PLCC-44	Serial communications controller	8.19	6.21	5.25
281324CE	Z8523016VSC	PLCC-44	Enhanced serial comm. controller	15.75	14.45	13.96

♣ Pull = Extra Savings

Dallas 87C/89C MCU Series

DIP



PLCC



Part No.	Cross Ref.	Pkg.	Description	1	10
345341CE	DS87C530-QNL	PLCC-52	EPROM/ROM MCU w/ real-time clock	\$38.79	\$36.50
345359CE	DS87C520-WCL	DIP-40	EPROM/ROM MCU, high-speed	50.99	46.65
345367CE	DS87C520-MCL	DIP-44	EPROM/ROM MCU, high-speed	29.29	27.85

6500 Series/Commodore/WDC

DIP



Part No.	Cross Ref.	Pkg.	Description	1	10	100
43191CE	6502	DIP-40	MPU with internal clock 1MHz	\$7.95	\$6.95	\$6.25
43166CE	65C02	DIP-40	MPU with internal clock CMOS	6.95	5.25	3.65
43254CE	6522	DIP-40	VIA (versatile interface adapter) 1MHz	3.95	2.69	2.45
43297CE	6532	DIP-40	128 x 8 RAM, I/O timer array	7.95	6.99	6.49
43318CE	6551	DIP-28	ACIA (asynch. comm. interface adptr)	3.95	3.49	3.15

♣ Pull = Extra Savings

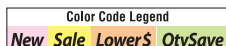
6800/68000 Series

DIP



Part No.	Cross Ref.	Pkg.	Description	1	10	100
43481CE	6800	DIP-40	8-bit MCU	\$6.95	\$5.25	\$3.65
43502CE	6802	DIP-40	8-bit MPU with clock and RAM (1MHz)	8.49	7.65	6.89
43529CE	6803	DIP-40	8-bit MCU with 128k RAM	7.79	6.99	6.29
43537CE	MC6808	DIP-40	8-bit MPU with clock and 128k RAM	8.95	8.06	7.25
43545CE	6809E	DIP-40	MPU with external clock (1MHz)	3.95	3.59	3.25
325090CE	68B09E	DIP-40	MPU with external clock (2MHz)	3.95	3.59	3.25
43561CE	6810	DIP-24	128x8 static RAM (1MHz)	1.95	1.69	1.49
43596CE	6821	DIP-40	Peripheral interface adapter (1MHz)	3.95	3.59	3.25
43414CE	68B21	DIP-40	Peripheral interface adapter (2MHz)	4.95	4.49	4.05
43617CE	6840	DIP-28	Programmable timer (1MHz)	2.49	2.25	1.99
43633CE	6850	DIP-24	Asynch. comm. int. adapter (ACIA)	2.39	2.09	1.89
25304CE	MC68000L8	DIP-64	MPU 16-bit (8MHz)	8.95	7.95	7.25
25291CE	MC68000L10	DIP-64	MPU 16-bit (10MHz)	14.95	12.75	9.55

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6800/68000 Series



Part No.	Cross Ref.	Pkg.	Description	1	10	100
25355CE	MC68701	DIP-40	8-bit EPROM MPU w/ 128B RAM & I/O	\$15.95	\$13.95	\$12.55
25363CE	MC68705P3S	DIP-28	8-bit EPROM MPU w/ 112B RAM & I/O	24.95	22.95	20.65
25371CE	MC68705U3S	DIP-40	8-bit EPROM MPU w/ 112B RAM & I/O	29.95	25.49	19.09
248591CE	MC68HC11E0CFN2	PLCC-52	MCU w/ 512 EPROM & 38 I/O, A/D	10.95	9.31	7.20
248604CE	MC68HC11E1CFN3	PLCC-52	MCU w/ 512 EPROM & 38 I/O, A/D	8.85	7.25	6.55
191863CE	MC68HC11E1CP2	DIP-48	MCU w/ A/D converter (512B RAM)	15.95	14.35	12.69
248583CE	MC68HC11F1CFN3	PLCC-68	MCU w/ 512 EPROM & 30 I/O, A/D	9.99	8.49	6.37
248647CE	MC68HC705C8ACFN	PLCC-44	MCU, OTP 8k ROM, 31 I/O	7.39	6.28	4.71
108919CE	MC68HC705C8P	DIP-40	MCU, OTP 8k ROM, 24 I/O lines	7.29	6.29	5.92
132484CE	MC68HC705C8S	DIP-40	MCU, 8k bytes, EPROM	38.95	34.95	31.55
248639CE	MC68HC705J1ACDW	SOIC-20	MCU, OTP 1.2k ROM, 14 I/O	3.45	2.93	2.20
132530CE	MC68HC705J1ACP	DIP-20	MCU, OTP 1.0k ROM, 14 I/O	2.09	1.89	1.79
108927CE	MC68HC705K1P	DIP-16	MCU, OTP 504B ROM, 10 I/O timer	5.55	5.35	4.95
248612CE	MC68HC705P6ACP	DIP-28	MCU, OTP 4.5k ROM, 21 I/O A/D	3.55	3.02	2.26
248621CE	MC68HC705P6ADW	SOIC-28	MCU, OTP 4.5k ROM, 21 I/O A/D	3.55	3.02	2.26
248655CE	MC68HC705C9ACFN	PLCC-44	MCU, OTP 16k ROM, 31 I/O	11.75	10.55	9.50
248567CE	MC68HC71D3CFN2	PLCC-44	MCU, OTP 4k ROM, 26 I/O	10.75	9.69	8.71
285675CE	MC68HC705BDT	DIP-40	MCU, OTP 11k ROM, 26 I/O A/D	9.99	8.99	6.74
248575CE	MC68HC71E9CFN2	PLCC-52	MCU, OTP 12k ROM, 38 I/O A/D	13.45	10.50	9.87
248356CE	MC68HC908GP32CP	DIP-40	MCU, flash 32k ROM, 33 I/O	12.69	11.39	10.29
323213CE	MC68HC908GR8CP	DIP-28	MCU, flash 8-bit, 8k ROM, 21 I/O A/D	6.25	5.28	5.01
248410CE	MC68HC908JB8ADW	SOIC-28	MCU, flash 8k ROM, 21 I/O USB	\$6.69	5.45	4.95
248401CE	MC68HC908JB8JP	DIP-20	MCU, flash 8k ROM, 37 I/O USB	5.25	4.78	4.35
323205CE	MC68HC908JK1CDW	SOIC-20	MCU, flash 1.5k ROM, 15 I/O A/D (HCMOS)	2.35	2.01	1.91
323192CE	MC68HC908JK1CP	DIP-20	MCU, flash 1.5k ROM, 15 I/O A/D (HCMOS)	2.79	2.01	1.91
248372CE	MC68HC908JK3CDW	SOIC-20	MCU, flash 4k ROM, 15 I/O	3.75	3.45	3.09
248364CE	MC68HC908JK3CP	DIP-20	MCU, flash 4k ROM, 15 I/O	3.75	3.45	3.09
248399CE	MC68HC908JL3CDW	SOIC-28	MCU, flash 4k ROM, 23 I/O, A/D	5.45	4.63	3.60
248381CE	MC68HC908JL3CP	DIP-28	MCU, flash 4k ROM, 23 I/O, A/D	4.55	4.35	3.95
248436CE	MC68HC908KX8CDW	SOIC-16	MCU, flash 8k ROM, 13 I/O, A/D	6.29	5.69	5.15
248428CE	MC68HC908KX8CP	DIP-16	MCU, flash 8k ROM, 13 I/O, A/D	5.65	5.12	4.65
248495CE	MC68HC908QT1CDW	SOIC-8	MCU, flash 1.5k ROM, 6 I/O	1.89	1.45	1.30
248487CE	MC68HC908QT1CP	DIP-8	MCU, flash 1.5k ROM, 6 I/O	1.89	1.45	1.30
248479CE	MC68HC908QT2CDW	SOIC-8	MCU, flash 1.5k ROM, 6 I/O, A/D	\$2.39	2.05	1.85
248461CE	MC68HC908QT2CP	DIP-8	MCU, flash 1.5k ROM, 6 I/O, A/D	2.85	2.42	1.82
248452CE	MC68HC908QT4CDW	SOIC-8	MCU, flash 4k ROM, 6 I/O, A/D	2.69	2.05	1.85
248444CE	MC68HC908QT4CP	DIP-8	MCU, flash 4k ROM, 6 I/O, A/D	1.99	1.82	1.65
248559CE	MC68HC908QY1CDT	TSSOP-16	MCU, flash 1.5k ROM, 14 I/O	2.49	2.12	1.65
248541CE	MC68HC908QY1CP	DIP-16	MCU, flash 1.5k ROM, 14 I/O	\$2.15	1.75	1.45
248532CE	MC68HC908QY2CDT	TSSOP-16	MCU, flash 1.5k ROM, 13 I/O, A/D	2.85	2.42	1.82
248524CE	MC68HC908QY2CP	DIP-16	MCU, flash 1.5k ROM, 13 I/O, A/D	2.55	1.95	1.75
248516CE	MC68HC908QY4CDW	TSSOP-16	MCU, flash 4k ROM, 13 I/O A/D	2.89	2.49	2.44
248508CE	MC68HC908QY4CP	DIP-16	MCU, flash 4k ROM, 13 I/O A/D	\$2.89	2.49	2.05
323221CE	MC68HC912B32CFU8	QFP-80	MCU, flash 16-bit 1.5k ROM 15 I/O A/D	20.55	19.50	18.52

◆ Refurbished = Backed by Jameco

8000 Series



Part No.	Cross Ref.	Pkg.	Description	1	10	100
51844CE	8031	DIP-40	CPU with 128 x 8 RAM and I/O	\$3.29	\$2.99	\$2.69
51676CE	80C31	DIP-40	CPU with 128 x 8 RAM and I/O CMOS	3.39	2.89	2.19
102197CE	8032	DIP-40	8-bit MCU 256 x 8 RAM	3.95	3.59	3.25
108804CE	80C32-1	DIP-40	8-bit MCU 256 x 8 RAM CMOS	4.49	3.85	2.89
51861CE	8035	DIP-40	MPU 8-bit	3.95	3.59	3.25
51959CE	8039	DIP-40	CPU single chip 8-bit (128 bytes RAM)	4.49	3.99	3.59
51692CE	80C39	DIP-40	CPU sgile chip 8-bit (128 bytes RAM) CMOS	3.99	3.39	2.54
51983CE	8049*	DIP-40	CPU sgile chip 8-bit (can be used as 8039*)	1.95	1.75	1.59
51991CE	8051A**	DIP-40	MCU w/128x8 RAM	5.49	4.99	4.49
52003CE	8052AH**	DIP-40	CPU 8-bit 256 bytes RAM, tmr/count & I/O	7.99	7.19	6.49

◆ Pull = Extra Savings

* 8049 (ROM not available for use) Tie pin 7 high to bypass the internal ROM to convert 8049 to 8039

** Tie pin 31 low to bypass the internal ROM

8000 Series (Continued)



Part No.	Cross Ref.	Pkg.	Description	1	10	100
125647CE	80C52BASIC	DIP-40	CPU 8-bit CMOS w/ basic interpreter	\$32.09	\$28.89	\$25.99
52046CE	8080A	DIP-40	CPU 8-bit N-channel (1MHz)	4.49	3.95	3.59
52062CE	8085AH	DIP-40	CPU 8-bit H MOS (3MHz)	4.99	4.49	3.99
52071CE	8085AH-2	DIP-40	CPU 8-bit H MOS (5MHz)	5.49	4.99	4.49
51705CE	80C85A-2	DIP-40	CPU 8-bit CMOS (5MHz)	6.95	6.26	5.56
52100CE	8086-2	DIP-40	CPU 16-bit (8MHz)	1.95	1.75	1.59
52142CE	8088	DIP-40	CPU 16-bit (8-bit data bus) 5MHz	2.49	2.25	1.99
52169CE	8088-2	DIP-40	CPU 16-bit (8-bit data bus) 8MHz	5.95	5.39	4.85
34358CE	UPD70108-8	DIP-40	V20 chip (replaces the 8088-2) 8MHz	10.99	9.99	8.99
52290CE	8155	DIP-40	H MOS RAM I/O port/timer (3MHz)	4.49	4.05	2.99
52302CE	8155-2	DIP-40	H MOS RAM I/O port/timer (5MHz)	5.95	5.39	4.85
52193CE	81C55	DIP-40	256x8 RAM I/O port/tmr CMOS 3MHz	4.49	3.59	3.19
52468CE	8212	DIP-24	8-bit input/output (74S412)	6.49	5.99	5.49
52484CE	8216	DIP-16	Bi-directional bus driver (non-invert.)	3.95	3.39	2.55
52492CE	8224	DIP-16	Clock generator/driver	2.95	2.49	2.25
52513CE	8228	DIP-28	System contr./bus driver (74S428)	3.69	3.19	2.36
52581CE	8243	DIP-24	I/O expander for 48 series	5.49	4.99	4.49
52610CE	8250A	DIP-40	Asynchronous comm. element	4.95	4.21	3.15
52644CE	8251	DIP-28	Comm. i/mo. I/O (USART)	2.99	2.69	2.39
52652CE	8251A	DIP-28	Prog. comm. interface (USART)	3.99	3.69	3.39
52370CE	82C51A	DIP-28	Prog. comm. interface (USART) CMOS	4.49	3.99	3.49
52679CE	8253	DIP-24	Prog. interval timer	3.19	2.89	2.59
52687CE	8253-5	DIP-24	Prog. interval timer (2MHz)	4.99	4.49	3.99
52388CE	82C53-5	DIP-24	Prog. interval timer CMOS 2MHz	4.95	4.25	3.19
52708CE	8254	DIP-24	Prog. interval timer (UPD71054)	4.49	3.99	3.59
52716CE	8254-2	DIP-24	Prog. interval timer (10MHz)	7.35	6.65	5.95
52396CE	82C54	DIP-24	Prog. interval timer CMOS	3.95	3.55	3.19
52409CE	82C54-2	DIP-24	Prog. interval timer CMOS 10MHz	4.49	4.05	3.59
52724CE	8255	DIP-40	Prog. periph. I/O (PPI) 71055 (2MHz)	4.49	3.99	3.49
52732CE	8255A-5	DIP-40	Prog. peripheral I/O (PPI) 5MHz	4.89	4.39	2.89
291805CE	8255AC-5	DIP-40	MPU peripheral I/O (PPI)	4.89	4.39	2.89
52417CE	82C55A	DIP-40	Prog. peripheral I/O (PPI) CMOS	4.99	4.49	3.99
52425CE	82C55A-5	DIP-40	Prog. periph. I/O (PPI) CMOS (5MHz)	4.49	3.99	3.49
52759CE	8256	DIP-40	Multif. universal asynch. rec./trans.	19.99	17.99	16.19
52775CE	8259	DIP-28	Prog. interrupt controller (UPD71059)	1.75	1.55	1.45
52783CE	8259-5	DIP-28	Prog. interrupt controller (8259A-2)	2.49	2.19	1.99
52821CE	8275	DIP-40	Prog. CRT controller	9.95	9.49	8.25
52839CE	8279	DIP-40	Prog. keyboard/display interface	12.99	11.99	10.99
52847CE	8279-5	DIP-40	Prog. keybrd/display interface (5MHz)	12.95	11.69	10.49
52855CE	8282	DIP-20	Octal latch (UPD71082)	5.95	4.89	3.45
52871CE	8284A	DIP-18	Clock gen. and driver (UPD71084)	4.49	3.99	3.59
52898CE	8286	DIP-20	Octal bus transceiver (UPD71086)	3.95	3.59	3.25
52901CE	8287	DIP-20	Octal bus transceiver (inverted)	10.99	9.99	8.99
52919CE	8288	DIP-20	Bus controller (UPD71088) 82C88-2	1.95	1.65	1.25
53006CE	8741	DIP-40	8-bit univ. periph. interface (EPROM)	7.99	7.19	6.49
53014CE	8742	DIP-40	8-bit univ. peripheral interface	9.95	8.49	6.35
53022CE	8748	DIP-40	CPU 8-bit, EPROM, RAM & I/O (21V)	13.95	12.56	11.11
53031CE	8748H	DIP-40	CPU 8-bit, EPROM, RAM & I/O H MOS (21V)	15.95	14.49	12.99
53057CE	8749H	DIP-40	MPU 8-bit (EPROM version 8049)	22.99	19.49	15.95
53073CE	8751	DIP-40	CPU w/ 4k EPROM & 128x8 RAM (3.5-8MHz)	19.99	16.99	12.74
53081CE	8751H	DIP-40	CPU w/ 4k EPROM & 128x8 RAM (1.2-12MHz)	24.95	20.25	14.99
52978CE	87C51	DIP-40	CPU w/ 4k EPROM & 128x8 RAM (3.5-12MHz)	21.99	19.79	17.49
196120CE	P87C51	DIP-40	CPU w/ 4k EPROM & 128x8 RAM (3.5-12MHz) OTP	8.99	8.09	7.29
53090CE	8755	DIP-40	16k EPROM with I/O	8.95	8.09	7.29
53073CE	8751	DIP-40	CPU w/ 4k EPROM & 128x8 RAM (3.5-8MHz)	19.99	16.99	12.74
53081CE	8751H	DIP-40	CPU w/ 4k EPROM & 128x8 RAM (1.2-12MHz)	24.95	20.25	14.99
52978CE	87C51	DIP-40	CPU w/ 4k EPROM & 128x8 RAM (3.5-12MHz)	21.99	19.79	17.49
196120CE	P87C51	DIP-40	CPU w/ 4k EPROM & 128x8 RAM (3.5-12MHz) OTP	8.99	8.09	7.29
53090CE	8755	DIP-40	16k EPROM with I/O	8.95	8.09	7.29
248701CE	T89C51RB2	PLCC-44	MCU, flash 16k ROM, 32 I/O	6.59	6.11	5.81
248719CE	T89C51RC2	PLCC-44	MCU, flash 32k ROM, 32 I/O	10.25	8.71	6.53
248727CE	T89C51RD2	PLCC-44	MCU, flash 64k ROM, 32 I/O	\$13.45	10.89	9.90

◆ Pull = Extra Savings ◆ Refurbished = Backed by Jameco

BASIC Stamp Controllers & Development Kits

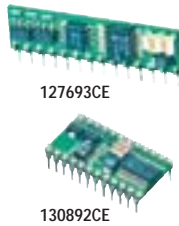
PARALLAX BASIC Stamps

BASIC Stamps are small computers using a variation of BASIC called PBASIC. They are ideal for controller apps including robotics, radio-controlled interfaces of a digital camera, industrial pallet stackers, health monitoring systems, and much more. The BS1-IC has 8 I/O lines, while the BS2-IC has 16 I/O lines. Each can be connected directly to buttons, LEDs, registers, and many other TTL level devices. Both allow you to store data in the EEPROM before downloading a BASIC program.

Includes: Embedded BASIC plus instruction sets; basic interpreter, EEPROM (non-volatile), a resonator and 5V regulator

Specifications:	127693CE	130892CE
EEPROM	256 bytes	2048 bytes
RAM	16 bytes	32 bytes
Cur. Draw @ 5V	2mA run/20µA	8mA run/100µA
Microcontroller	PIC16C56	PIC16C57
Program speed	2000/sec.	4000/sec.
# of I/O Pins	8	16 + 2 serial
Package	14-pin SIP	24-pin DIP
Volts Required	5-15VDC	5-15VDC
Size	1.4"L x 0.4"W	1.2"L x 0.6"W

Part No.	Parallax No.	1	10
127693CE	BS1-IC	\$28.95	\$28.29
130892CE	BS2-IC	48.95	43.95



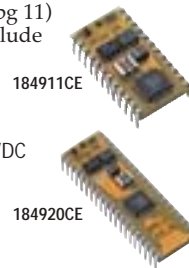
See page 212 for
Serial LCD Modules

PARALLAX BASIC Stamp 2P Modules

In addition to the BS2-SX (pg 11) features, these modules include commands for HD44780 compatible LCDs, Dallas Semiconductor 1-wire and Philips I2C parts.

- Voltage requirements: 5-12VDC
 - Program execution speed: 12,000 instructions/sec.
 - RAM size: 38 bytes (12 I/O, 26 variable)
 - Scratch pad RAM: 128 bytes
 - EEPROM program size: 2k x 8, 4,000 instructions
 - Current draw @ 5V: 40mA run; 400µA sleep
- 184911CE:** Number of I/O pins: 16 + 2 serial
184920CE: Number of I/O pins: 32 + 2 serial

Part No.	Parallax No.	1	10
184911CE	BS2P24-IC 24-pin	\$78.95	\$70.95
184920CE	BS2P40-IC 40-pin	87.95	79.95



PARALLAX 50MHz BASIC Stamp 2SX Module

High-speed version of BS2-IC.

- Volts required: 5-12 VDC
- RAM size: 32 bytes
- Scratch pad RAM: 64 bytes
- Microcontroller: Ubicom SX28AC
- Number of I/O pins: 16 + 2 serial
- EEPROM program size: 2k x 8, 4,000 instructions
- Program execution speed: 10,000 instructions/sec.
- Current draw @ 5V: 60mA run; 200µA sleep

Part No.	Parallax No.	1	10
159775CE	BS2SX-IC 24-pin	\$58.95	\$52.95



PARALLAX BS2E-IC Basic Stamp Module

The BS2E-IC runs at the same speed as BASIC Stamp 2, but has the RAM and EEPROM size benefits of the BS2-SX, with much lower speed and power consumption. Ideal for those who use the BS2 and would like more variable or program space. Programmed in Windows®.

- EEPROM (program) size: 2k x 8, ~ 4,000 instructions
- RAM: 32 bytes (6 I/O, 26 variable)
- Current draw @ 5V: 20mA run/100µA sleep
- Microcontroller: Scenix SX28AC
- Program speed: 4,000 instructions / sec
- Number of I/O pins: 16 + 2 dedicated serial
- Voltage requirement: 5-12VDC • Package: DIP-24

Part No.	Parallax No.	Lower \$\$\$	1	10
283047CE	BS2E-IC		\$53.95	\$49.35



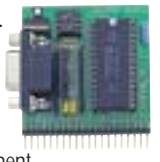
PARALLAX BASIC Stamp 2 OEM Kit

A through-hole version of the popular BASIC Stamp modules.

- 20-pin SIP, standard 0.1" spacing
- PC board includes labeled component locations with visible traces between parts
- PBASIC interpreter and EEPROM are socketed to allow for replacement
- Programmed using PBASIC DOS or Windows®

Includes: PBASIC interpreter, EEPROM, resonator, DB-9, resistors and transistors

Part No.	Parallax No.	1	10
183071CE	27291 BASIC® Stamp 2 kit ...	\$44.79	\$42.53



For detailed specs, visit www.Jameco.com/Rabbit



Wi-Fi Application Kit

Jumpstart your wireless application design with a complete application kit. Integrating Wi-Fi (IEEE 802.11b) with a RabbitCore™ Development Kit, embedded system integrators can now enable a wireless embedded system.

Wireless connectivity eliminates ethernet cables allowing greater flexibility and mobility of wireless embedded networks. This kit provides all the tools necessary to sample and design communications from a Rabbit-based device to a Wi-Fi-enabled device (e.g. PC Laptop, PDA, etc.). The RCM can also send/receive email from any PC or device with a compatible Wi-Fi card. Includes Dynamic C® software with royalty-free TCP/IP stack.

Includes a Linksys Wi-Fi card, RCM3100 microprocessor core module, prototyping board, Dynamic C® development system and complete documentation on CD-ROM, serial cable for programming and debugging, 10-pin DB15 Conversion Cable, manuals and AC adapter (U.S./Canada only).

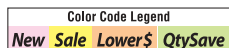
Applications

- Wireless automation and control
- Convenient data and event logging
- Instrumentation monitoring

Part No.	Description	Weight	Price
321681CE	Wi-Fi Application Kit	2.0 lbs.	\$568.95

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Have you found a product at a lower print-advertised price?
We'll beat that price by 10% right down to our cost!



Multi-Port Serial to Ethernet Kit

Enable your customers to monitor your sensors from their desktop. The Rabbit Serial-to-Ethernet Kit provides the hardware and software necessary for sensors and other serial devices to communicate via a LAN or other network. This kit allows you to simultaneously connect several serial devices to a network. Implementation of the optional RabbitWeb software module makes it simple to web-enable your application to allow monitoring and control of serial devices via the internet or intranet. Other optional software modules help to secure your data through SSL and encryption.

Sample application programs guide you through serial to Ethernet conversion. This kit also includes a prototyping board, Dynamic C® development environment including a royalty-free TCP/IP stack with source code, sample applications, temperature sensor demoboard, required cables, and assorted accessories. The sample applications highlight functionality such as RS-232 to Ethernet conversion, RS-485 to ethernet conversion, ethernet to serial conversion, data gathering from serial devices such as the included temperature sensor demoboard and a digital voltmeter (not included), and web-enabling applications.

Features

- Serial to ethernet applications for: digital voltmeter and temperature sensor reader and binary and hexadecimal ASCII
- Royalty-free TCP/IP stack with source code
- Configuration menu system

Design Advantages

- Minimal ethernet experience required
- 3 step setup
- Software compatible with other Rabbit-based products

Part No.	Description	Weight	Price
321656CE	Multi-Port serial to ethernet app. kit	2.0 lbs.	\$375.25



The Rabbit 3000 Microprocessor

The new Rabbit 3000 is a high-performance, low-EMI microprocessor designed specifically for embedded control, communications, and Ethernet connectivity. The 8-bit Rabbit 3000 out performs most 16-bit processors without losing the efficiency of an 8-bit architecture. Extensive integrated features and glueless architecture facilitate rapid hardware design, while a C-friendly instruction set promotes efficient development of even the most complex applications.

All development kits come complete with microprocessor core module, prototyping board, Dynamic C® development software with documentation on CD-ROM, serial cable for programming and debugging, getting started manual and AC adapter.

Shared Features of the RCM3000 RabbitCore™ Series

- EMI Reduction: spectrum spreader for reduced EMI (radiated emissions)

- Serial Rate: max. asynchronous burst rate = CLK/8
- Backup battery: connection for user-supplied battery (to support RTC and SRAM)
- Shared interface: permits use as master or intelligent peripheral with Rabbit-based or other master controller
- Real-time clock: battery backable
- Timers: ten 8-bit timers (six cascaded from the first, three reserved for internal peripherals), and one 10-bit timer with 2 match registers
- Pulse-width modulation: 8-bit free running counter and four 10-bit pulse-width registers
- Input capture: 2-channel input capture can be used to time input signals from various port pins
- Quadrature recorder: 2-channel quadrature decoder accepts inputs from external incremental encoder modules
- Watchdog: yes

For detailed specs, visit www.Jameco.com/Rabbit

RCM3000 & 3100 General Purpose Development Kits

RCM3000 RabbitCore™ 10Base-T Development Kit

The RCM3000 RabbitCore™ with 49 I/O lines is the most powerful and feature-packed 10Base-T Ethernet microprocessor core module.



RCM3100 RabbitCore™ General Purpose Development Kit

The RCM3100 RabbitCore™ with 54 I/O lines is ideal for non-Ethernet designs that need powerful embedded performance and a small footprint.

The RCM3000 & RCM3100 are ideal options for designers who want to rapidly develop and implement embedded systems with or without integrated Ethernet connectivity.

Both kits include the built-in RabbitCore™ low-EMI feature, including a clock spectrum spreader to help designers eliminate the kind of emissions-related problems that frequently derail tight development schedules. Additional features include a battery-backed real-time clock, glueless memory and I/O interfacing, a fully enabled slave port and an alternate I/O bus, which can be configured for 8 data lines and 6 address lines. Pin compatibility helps designers implement cost-effective 3.3V Ethernet and non-Ethernet systems without redesign.

Part No.	Description	Weight	Price
320733CE	RCM3000 ethernet enabled development kit	2.0 lbs.	\$294.99
320741CE	RCM3100 general purpose development kit	2.0 lbs.	226.95

See pages 280-281 for Ethernet Starter and Microprocessor Starter Kits.



RCM3200 10/100Base-T Development Kit

The RCM3200 RabbitCore™ microprocessor core module is a great choice for designers who want to rapidly implement embedded systems that require a fully integrated 10/100Base-T Ethernet connection. Additional features include a battery-backed real-time clock, glueless I/O interfacing, slave port and an alternate I/O bus.



Part No.	Description	Weight	Price
320979CE	RCM3200 ethernet enabled development kit	2.0 lbs.	\$331.55

RCM3300 & 3360 Flash Development Kits

The RCM3300 — Serial Flash Kit

The RCM3300 RabbitCore™ microprocessor core module is ideal for designers who want to rapidly develop serial Flash into their embedded application. The RCM3300 offers 8MB of serial flash for data logging and file storage purposes.



The RCM3360 Supports xD-Picture Cards™

The RCM3360 RabbitCore™ microprocessor core module presents a new form of embedded flexibility: removable xD-Picture Cards. Supports 16MB of on-board NAND Flash as well as memory cards of up to 128MB. The RabbitCore is perfect for large data applications requiring low-power operation.



Part No.	Description	Weight	Price
321082CE	RCM3300 serial flash development kit	2.0 lbs.	\$283.95
321613CE	RCM3360 NAND flash development kit	2.0 lbs.	378.95

Comparison Chart for Rabbit Semiconductor Development Kits

Model No. Jameco Part No.	RCM3000 320733CE	RCM3100 320741CE	RCM3200 320979CE	RCM3300 321082CE	RCM3360 321613CE
CPU Speed	29.4MHz	29.4MHz	44.2MHz	44.2MHz	44.2MHz
Ethernet	10Base-T, RJ-45, 2 LEDs	None	10/100Base-T, RJ-45, 3 LEDs	10/100Base-T, RJ-45, 3 LEDs	10/100Base-T, RJ-45, 3 LEDs
Flash Memory	512k (2 x 256kB)	512k (2 x 256kB)	512kB	512kB	512kB
SRAM	512kB	512kB	512kB program + 256kB data	512kB program + 512kB data	512kB program + 512kB data
Extended Memory	None	None	None	8MB Serial Flash	16MB NAND Flash Chip, xD Removable Flash Memory
General Purpose I/O	49 digital: 43 configurable, 3 fixed inputs, 3 fixed outputs	54 digital: 46 configurable, 4 fixed inputs, 4 fixed outputs	52 digital: 44 configurable, 4 fixed inputs, 4 fixed outputs	49 parallel digital: 43 configurable, 3 fixed inputs, 3 fixed outputs	52 parallel digital: 44 configurable, 4 fixed inputs, 4 fixed outputs
Analog Inputs	None	None	None	None	None
Additional Inputs	2 Startup mode, Reset	2 Startup mode, Reset	2 Startup mode, Reset	2 Startup mode, Reset	2 Startup mode, Reset
Additional Outputs	Status, Reset	Status, Reset	Status, Reset	Status, Reset	Status, Reset
External I/O	6 shared w/ I/O, 8 data, plus I/O Rd, I/O Wr	6 shared w/ I/O, 8 data, plus I/O Rd, I/O Wr	6 shared w/ I/O, 8 data, plus I/O Rd, I/O Wr	5 shared w/ I/O 8 data, plus I/O Rd, I/O Wr	5 shared w/ I/O 8 data, plus I/O Rd, I/O Wr
Serial Ports	Six 3.3V CMOS-compatible config. as asynchronous (with IrDA), 4 config. as clocked (SPI), 2 config. as SDLC/HDLC			Five 3.3V CMOS-compat. config. asynch. (w/ IrDA), 3 config. clocked (SPI), 2 config. SDLC/HDLC, 1 asynch. (prog.)	
Power	3.15 - 3.45VDC @ 150mA	3.15 - 3.45VDC @ 75mA	3.15 - 3.45V @ 255mA	3.15 - 3.45VDC @ 350mA	3.15 - 3.45VDC @ 350mA
Board Size	2.73" x 1.85" x 0.86"	1.85" x 1.65" x 0.55"	2.73" x 1.85" x 0.86"	2.73" x 1.85" x 0.86"	2.73" x 1.85" x 0.86"
Connectors	Two 2 x 17.2mm IDC headers	Two 2 x 17.2mm IDC headers	Two 2 x 17.2mm IDC headers	Two 2 x 17.2mm IDC headers	Two 2 x 17.2mm IDC headers
Included	RabbitCore™ module, development board with prototyping area, Dynamic C development system and documentation on CD-ROM, serial cable, getting started manual, and AC adapter				
Price	\$294.99	\$226.95	\$331.55	\$283.95	\$378.95

RCM3400 Development Kit

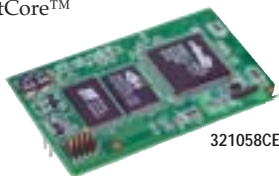
The RCM3400 is based on the low-EMI Rabbit 3000 CPU running at 29.4MHz, with 512kB Flash and 512kB SRAM on board. The development board features a 10/100BaseT Ethernet connection and can be used as a reference design in conjunction with Dynamic C's royalty-free TCP/IP software libraries included in the development kit. Additional features include 5 serial ports and 8 analog inputs with programmable gain - all in an extremely small footprint! Each RCM3400 comes with a pre-assigned MAC ID, allowing it to be Ethernet ready.



Part No.	Description	Weight	Price
321031CE	RCM3400 analog development kit	2.0 lbs.	\$378.95

RCM3600, 3700 & 3720 Combo Flash/10Base-T Kits

The RCM3600 and RCM3700/3720 RabbitCore™ development kits are the lowest priced Rabbit 3000 microprocessor based core modules designed for a wide variety of applications. Each is equipped with +5VDC tolerant I/O, quadrature encoder inputs, PWM outputs, and pulse capture and measurement capabilities.



Design Advantages:

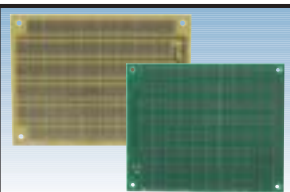
- Ready-made platform for fast time-to-market; up to 3 months design integration time savings
- Exceptionally fast performance for math, logic, I/O
- Dynamic C® development environment for real-time development & debugging



Part No.	Description	Weight	Price
321058CE	RCM3600 above without ethernet	2.0 lbs.	\$226.95
321074CE	RCM3700 10Base-T enabled, 512kB SRAM kit	2.0 lbs.	283.95
321630CE	RCM3720 10Base-T enabled, 256kB SRAM kit	2.0 lbs.	188.95

More Prototyping Boards

See pages 272, 274 and 275 for more prototyping boards.



GSM/GPRS and M2M Application Kits

This kit provides all the tools necessary to sample and develop applications that combine a Rabbit-based control device with a GSM/GPRS modem. The libraries and sample programs allow for a device connected to the cellular network to send SMS (text) messages to a RabbitCore Module (RCM) that can interpret messages as commands and in turn execute control functions. The RCM can also send/receive GPRS email wirelessly to/from any PC, GSM device, or cell phone. The LCD/keypad module included incorporates a menu system that provides for an easy interface to read or send text messages and email.



321584CE



321197CE

Application Kit Highlights

- Hardware/Software for wireless RCM communication and control via GPRS/GSM
- GUI & Keypad configuration menu system
- Royalty-free TCP/IP stack in source code
- Sample programs/libraries for generic modem operation
- Fully integrated software: compiler, editor and debugger for control applications

Part No.	Description	Weight	Price
321584CE	GSM/GPRS app. kit w/ Enfora modem	2.0 lbs.	\$616.55
321197CE	Machine to Machine (M2M) kit w/ Wavecom modem	2.0 lbs.	663.95

Secure Embedded Web Application Kit

This kit provides optimized software development tools to easily build secure web interfaces for your new and existing applications. Built around the RCM3700 RabbitCore, the Kit offers Secure Socket Layer (SSL), which implements a 128-bit lock and key solution to encrypt data transfers. Software bundles (RabbitWeb, FAT File System and Secure Socket Layer) included enable rapid development of secure web browser interfaces for embedded system control.



Part No.	Description	Weight	Price
321470CE	Secure Embedded Web Application Kit	2.0 lbs.	\$663.95

For detailed specs, visit www.Jameco.com/Rabbit

Comparison Chart for Rabbit Semiconductor Development Kits

Model No.	RCM3400	RCM3600	RCM3700	RCM3720
Jameco Part No.	321031CE	321058CE	321074CE	321630CE
CPU Speed	29.4MHz	22.1MHz	22.1MHz	22.1MHz
Ethernet	10/100Base-T, MAC ID installed	None	10Base-T, RJ-45	10Base-T, RJ-45
Flash Memory	512kB	512kB	512kB	512kB
SRAM	512kB	512kB	512kB	256kB
Extended Memory	None	None	1MB Serial Flash	1MB Serial Flash
General Purpose I/O	47 digital: 41 configurable, 3 fixed inputs, 3 fixed outputs	33 parallel digital: 31 configurable, 2 fixed outputs	33 parallel digital: 31 configurable, 2 fixed outputs	33 parallel digital: 31 configurable, 2 fixed outputs
Analog Inputs	8-channels single-ended (11-bit) or 4-channels differential (12-bit)	None	None	None
Additional Inputs	2 Startup mode, Reset In, CONVERT	Reset	Reset	None
Additional Outputs	Status, Reset, BVREF	None	None	None
External I/O	6 address (shared w/ I/O), 8 data, plus I/O Rd, I/O Wr	5 address (shared w/ I/O), 8 data, plus I/O Rd, I/O Wr	5 address (shared w/ I/O), 8 data, plus I/O Rd, I/O Wr	5 address (shared w/ I/O), 8 data, plus I/O Rd, I/O Wr
Serial Ports	5 CMOS-compatible: 4 configurable as asynchronous (with IrDA), 3 as clocked serial (SPI), and 2 as SDLC/HDLIC (with IrDA), 1 asynchronous serial port (programming), support for MIR/SIR IrDA transceiver	Four 3.3V CMOS-compatible: 4 configurable as asynchronous (with IrDA), 3 as clocked serial (SPI) and 1 as SDLC/HDLIC (with IrDA) or 1 SPI and 2SDLC/HDLIC, 1 asynchronous serial port (programming)		
Power	3.0-3.45VDC @ 97mA (29.4MHz); 2.8-3.45VDC @ 57mA (14.7MHz)	4.75-12.6VDC @ 60mA (22.1MHz); 4.75-12.6VDC @ 38mA (11.06MHz)	4.75-5.25VDC @ 100mA (22.1MHz); 4.75-5.25VDC @ 78mA (11.06MHz)	4.75-5.25VDC @ 100mA (22.1MHz); 4.75-5.25VDC @ 78mA (11.06MHz)
Board Size	1.37" x 1.16" x 0.31"	2.10" x 1.20" x 0.62"	2.95" x 1.20" x 0.85"	2.95" x 1.20" x 0.85"
Connectors	Two 2 x 17 (1.27mm)	One 2 x 20, 0.10" IDC header	One 2 x 20, 0.10" IDC header	One 2 x 20, 0.10" IDC header
Included	RabbitCore™ module, development board with prototyping area, Dynamic C® development system and documentation on CD-ROM, serial cable, getting started manual, and AC adapter			
Price	\$378.95	\$226.95	\$283.95	\$188.95

Microcontrollers, Voice Chips and Memory

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Thousands of new ICs are in the pipeline for addition and not shown below. Call us to see if you can save 10-20%.

Stamp Microcontrollers

DIP 



80C52-BASIC Microcontroller

The 80C52-BASIC chip is a custom-masked microcontroller with a full-featured 8k-byte ROM-resident BASIC-52 interpreter. 256 x 8-bit RAM.

Hardware: • On-chip oscillator & clock circuit • Operates DC to 12MHz

Software: • Full BASIC interpreter in ROM on a single chip
• "Stand-alone" software development
• Interrupts can be handled by BASIC or Assembly Language

Part No.	Product No.	Description	1	10	100
125647CE	80C52BASIC	40-pin CPU 8-bit CMOS w/ BASIC interpreter	\$32.09	\$28.89	\$25.99



50MIPS SX Microcontroller

Part No.	Parallax No.	Description	1	10	100
162931CE	SX28AC/DP	DIP-28 50MIPS SX microcontroller	\$4.99	\$4.89	\$4.79
283063CE	SX48BD	POF-48 flash RAM	7.29	6.20	4.65

Voice Chips

DIP 

Single-Chip Voice Record/Playback Devices

10 to 120 Second Durations (28-pin DIP)

- Manual switch or microprocessor controllable
- Directly cascadable for longer durations
- Fully addressable to handle multiple messages
- On-chip automatic gain control (AGC) and clock source
- 100k record cycles (typical) • 1µA standby current (typical)
- Typical 100k record cycles, 1µA standby current, and 100 year message retention
- Single voltage operation: +5V (4.5V to 5.5V operating range)
- Playback can be edge or level-activated • 100-year message retention (typical)



107334CE

Part No.	Product No.	Description	1	10	50
141671CE	ISD1110P	Voice record/playback (10 sec.)	\$5.99	\$5.75	\$5.49
107334CE	ISD1420P	Voice record/playback (20 sec.)	7.25	6.00	4.89
120643CE	ISD2560P	Voice record/playback (60 sec.)	9.19	8.59	7.79
120660CE	ISD2590P	Voice record/playback (90 sec.)	14.09	12.29	11.69
141655CE	ISD25120P	Voice record/playback (120 sec.)	14.49	13.15	11.95

EPROM

DIP 

Part No.	Cross Ref.	Pkg.	Config.	Description	1	10	100
39909CE	2708	DIP-24	1k x 8	450ns (+5V, +12V)	\$4.99	\$4.29	\$3.19
33611CE	TMS2716	DIP-24	2k x 8	450ns (+5V, +12V)	2.25	1.99	1.79
40002CE	2716	DIP-24	2k x 8	450ns (25V)	4.09	3.69	3.29
39706CE	27C16	DIP-24	2k x 8	450ns (25V) CMOS	6.99	5.99	4.99
308662CE	2716A-2	DIP-24	2k x 8	200ns (21V)	6.79	6.09	5.59
40011CE	2716-1	DIP-24	2k x 8	350ns (25V)	6.49	5.89	5.39
265931CE	27C16-200	DIP-24	2k x 8	200ns UVPROM (5V)	3.99	3.59	2.99
265965CE	27C16-150	DIP-24	2k x 8	150ns UVPROM (5V)	7.19	6.11	4.58
40096CE	2732	DIP-24	4k x 8	450ns (25V)	6.49	5.49	4.19
39765CE	27C32	DIP-24	4k x 8	450ns (25V) CMOS	5.49	4.19	2.89
40133CE	2732A-45	DIP-24	4k x 8	450ns (21V)	3.99	3.69	3.29
33591CE	TMS2532	DIP-24	4k x 8	450ns (21V)	3.99	3.59	3.19
114876CE	2732B	DIP-24	4k x 8	450ns (12.5V)	4.19	3.79	3.39
40125CE	2732A-25	DIP-24	4k x 8	250ns (21V)	4.99	4.49	3.99
40109CE	2732A-20	DIP-24	4k x 8	200ns (21V)	6.49	5.99	5.49
265990CE	27C32-200	DIP-24	4k x 8	200ns UVPROM (5V)	5.99	4.99	3.99
266001CE	27C32-150	DIP-24	4k x 8	150ns UVPROM (5V)	6.99	5.99	4.99

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EPROM (Continued)

DIP 

Part No.	Cross Ref.	Pkg.	Config.	Description	1	10	100
40205CE	2764-25	DIP-28	8k x 8	250ns (21V)	\$5.29	\$4.79	\$4.29
40248CE	2764A-25	DIP-28	8k x 8	250ns (12.5V)	3.99	3.69	3.09
39845CE	27C64-25	DIP-28	8k x 8	250ns (12.5V) CMOS	4.49	4.09	3.79
40192CE	2764-20	DIP-28	8k x 8	200ns (21V)	5.29	4.79	4.29
40230CE	2764A-20	DIP-28	8k x 8	200ns (12.5V)	4.49	4.09	3.69
74608CE	27C64-20	DIP-28	8k x 8	200ns (12.5V) CMOS	4.69	4.29	3.79
39829CE	27C64-15	DIP-28	8k x 8	150ns (12.5V) CMOS	3.79	3.49	2.99
105304CE	27C64-12	DIP-28	8k x 8	120ns (12.5V) CMOS	6.49	5.99	5.49
266036CE	27C64-100	DIP-28	8k x 8	100ns UVPROM (5V)	4.09	3.59	2.69
266044CE	27C64-70	DIP-28	8k x 8	70ns UVPROM (5V)	5.39	4.58	3.44
39933CE	27128-25	DIP-28	16k x 8	250ns (21V)	4.29	3.99	3.49
39984CE	27128A-25	DIP-28	16k x 8	250ns (12.5V)	4.49	4.09	3.69
39685CE	27C128-25	DIP-28	16k x 8	250ns (12.5V) CMOS	3.99	3.59	3.29
39968CE	27128A-20	DIP-28	16k x 8	200ns (12.5V)	4.69	4.19	3.79
101101CE	27C128-20	DIP-28	16k x 8	200ns (12.5V) CMOS	4.39	3.95	3.56
39950CE	27128A-15	DIP-28	16k x 8	150ns (12.5V)	4.49	3.99	3.59
39677CE	27C128-15	DIP-28	16k x 8	150ns (12.5V) CMOS	4.29	3.89	3.49
87935CE	27C128-12	DIP-28	16k x 8	120ns (12.5V) CMOS	4.69	4.09	3.69
266061CE	27C128-100	DIP-28	16k x 8	100ns (12Vpp)	4.89	4.29	3.89
149665CE	27C128-70	DIP-28	16k x 8	70ns (12.5V)	4.89	4.29	3.89
40061CE	27256-25	DIP-28	32k x 8	250ns (12V)	3.19	2.99	2.69
39731CE	27C256-25	DIP-28	32k x 8	250ns (12.5V) CMOS	3.19	2.99	2.69
40045CE	27256-20	DIP-28	32k x 8	200ns (12.5V)	3.69	3.29	2.99
39722CE	27C256-20	DIP-28	32k x 8	200ns (12.5V) CMOS	2.59	2.49	2.19
40037CE	27256-15	DIP-28	32k x 8	150ns (12.5V)	3.29	3.09	2.79
39714CE	27C256-15	DIP-28	32k x 8	150ns (12.5V) CMOS	2.09	1.79	1.59
65904CE	27C256-12	DIP-28	32k x 8	120ns (12.5V) CMOS	2.09	1.99	1.79
112740CE	27C256-10	DIP-28	32k x 8	100ns (12.5V) CMOS	3.29	3.09	2.59
140476CE	27C256-70	DIP-28	32k x 8	70ns (12.5V) CMOS	3.39	3.19	2.99
266079CE	27C256-55	DIP-28	32k x 8	55ns UVPROM (5V)	4.99	4.79	4.29
40168CE	27512-25	DIP-28	64k x 8	250ns (12.5V)	3.69	3.39	3.09
39802CE	27C512-25	DIP-28	64k x 8	250ns (12.5V) CMOS	4.75	4.39	3.95
40150CE	27512-20	DIP-28	64k x 8	200ns (12.5V)	2.69	2.39	2.19
39790CE	27C512-20	DIP-28	64k x 8	200ns (12.5V) CMOS	3.09	2.89	2.59
39781CE	27C512-15	DIP-28	64k x 8	150ns (12.5V) CMOS	2.09	1.99	1.79
39773CE	27C512-12	DIP-28	64k x 8	120ns (12.5V) CMOS	1.69	1.59	1.49
131959CE	27C512-10	DIP-28	64k x 8	100ns (12.5V) CMOS	3.19	2.99	2.49
175206CE	27C512-90	DIP-28	64k x 8	90ns (12.5V) CMOS	2.79	2.59	2.39
203625CE	27C512-70	DIP-28	64k x 8	70ns (12.5V) CMOS	2.89	2.49	2.19
266087CE	27C512-55	DIP-28	64k x 8	55ns (12Vpp)	3.59	3.39	3.19
203617CE	27C512-45	DIP-28	64k x 8	45ns (12.5V) CMOS	4.09	3.79	3.49
118148CE	27C1024-15	DIP-40	64k x 16	150ns (12.5V) CMOS	5.29	4.79	4.39
203641CE	27C1024-12	DIP-40	64k x 16	120ns (12.5V) CMOS	5.29	4.79	4.39
203633CE	27C1024-80	DIP-40	64k x 16	80ns (12.5V) CMOS	5.29	4.79	4.39

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Jameco Part No.	Product No.	Jameco® Price	Digi-Key® Price	Mouser® Price	Newark® Price	Minimum Savings	Discount
276592CE	EEPROM, 24C01128x8, DIP	\$0.36	\$0.45	\$0.48	\$0.596	\$0.09	20.0%
276621CE	EEPROM, 24C01128x8, SOIC	\$0.29	\$0.48	\$0.45	\$0.52	\$0.16	35.6%
276648CE	EEPROM, 24C04512x8, SOIC	\$0.34	\$0.56	\$0.45	\$0.52	\$0.11	24.4%
200619CE	EEPROM, 24C65, DIP	\$1.89	\$2.76	\$2.30	\$3.19	\$0.41	17.8%
39651CE	EEPROM, 27C010-15, DIP	\$2.19	\$2.55	\$2.55	Not offered	\$0.36	14.1%
203625CE	EEPROM, 27C512-70, DIP	\$2.89	\$3.24	\$3.24	Not offered	\$0.35	10.8%
394644CE	OTP, AT27BV1024-12JI, PLCC	\$3.99	\$5.59	\$4.80	Not offered	\$0.81	16.9%
395073CE	OTP, PLCC AT27C512R-70JI	\$1.09	\$1.29	\$2.72	Not offered	\$0.20	15.5%

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EPROM (Continued)

Part No.	Cross Ref.	Pkg.	Config.	Description	DIP 		
					1	10	100
39669CE	27C010-20	DIP-32	128k x 8	200ns (12.5V) CMOS	\$2.39	\$2.29	\$1.99
39651CE	27C010-15	DIP-32	128k x 8	150ns (12.5V) CMOS	2.19	1.99	1.75
74624CE	27C010-12	DIP-32	128k x 8	120ns (12.5V) CMOS	2.09	1.99	1.79
79231CE	27C010-10	DIP-32	128k x 8	100ns (12.5V) CMOS	2.39	1.99	1.75
137699CE	27C010-80	DIP-32	128k x 8	80ns (12.5V) CMOS	3.99	3.59	2.99
146149CE	27C010-70	DIP-32	128k x 8	70ns (12.5V) CMOS	2.49	2.29	2.09
266095CE	27C010-55	DIP-32	128k x 8	55ns (12Vpp)	5.29	4.89	4.49
137701CE	27C010-45	DIP-32	128k x 8	45ns (12.5V) CMOS	3.99	3.19	2.89
65681CE	27C020-20	DIP-32	256k x 8	200ns (12.5V) CMOS	4.99	4.24	3.18
65699CE	27C020-15	DIP-32	256k x 8	150ns (12.5V) CMOS	5.29	4.99	4.49
78852CE	27C020-12	DIP-32	256k x 8	120ns (12.5V) CMOS	5.29	4.89	4.49
156267CE	27C020-10	DIP-32	256k x 8	100ns (12.5V) CMOS	4.09	3.89	3.49
203650CE	27C020-80	DIP-32	256k x 8	80ns (12.5V) CMOS	4.25	3.61	2.71
266108CE	27C020-70	DIP-32	256k x 8	70ns UVPROM (5V)	4.89	4.49	3.39
266116CE	27C020-55	DIP-32	256k x 8	55ns UVPROM (5V)	6.89	6.55	6.21
127933CE	27C4096-12	DIP-40	256k x 16	120ns (12.5V) CMOS	9.29	8.69	7.89
85462CE	27C040-15	DIP-32	512k x 8	150ns (12.5V) CMOS	6.59	6.09	5.59
102293CE	27C040-12	DIP-32	512k x 8	120ns (12.5V) CMOS	6.59	6.09	5.59
111780CE	27C040-10	DIP-32	512k x 8	100ns (12.5V) CMOS	7.09	6.49	5.89
203676CE	27C040-80	DIP-32	512k x 8	80ns (12.5V) CMOS	5.45	4.99	4.95
266124CE	27C040-70	DIP-32	512k x 8	70ns UVPROM (5V)	6.05	5.19	5.15
266132CE	27C040-55	DIP-32	512k x 8	55ns UVPROM (5V)	9.49	8.07	6.05
203668CE	27C040-45	DIP-32	512k x 8	45ns (12.5V) CMOS	8.75	7.44	5.58
140003CE	27C080-12	DIP-32	1M x 8	120ns (12.5V) CMOS	12.59	11.59	10.59
265842CE	27C800-12	DIP-42	1M x 8	120ns UVPROM (5V)	12.59	11.59	10.59
156275CE	27C080-10	DIP-32	1M x 8	100ns (12.5V) CMOS	12.99	11.99	10.99
203684CE	27C080-90	DIP-32	1M x 8	90ns (12.5V) CMOS	12.99	11.99	10.99
156283CE	27C160-10	DIP-42	2M x 8	100ns (12.5V) CMOS	19.99	18.99	17.99


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See EPROM programmers and erasers on pages 276 & 277

EPROM Accessories

Part No.	Cross Ref.	Description	1	5
13864CE	CF2	Conductive foam (12" x 24" x .25") hard black	\$9.29	\$8.35
66042CE	DE1	UVP portable EPROM eraser, pg 277	51.85	49.95
15712CE	DE4	8-chip UV-EPROM eraser, pg 277	106.85	101.49

OTP/PROM



Part No.	Cross Ref.	Pkg.	Config.	Description	DIP 		
					1	10	100
48531CE	74S188	DIP-16	32 x 8	Open collector (27S18)	\$4.39	\$3.95	\$3.45
48717CE	74S288	DIP-16	32 x 8	Tri-st. (27S19/TBP18S030N)	7.39	6.39	5.49
27844CE	N82S23	DIP-16	32 x 8	PROM (OC) (27S18)	5.99	5.39	4.89
27764CE	N82S123	DIP-16	32 x 8	PROM tri-state (27S19)	8.89	8.49	8.09
48696CE	74S287	DIP-16	256 x 4	Tri-state (TBP24S10N)	9.85	9.03	7.80
48805CE	74S387	DIP-16	256 x 4	Open collector (TBP24A10N)	3.09	2.79	2.55
27772CE	N82S126	DIP-16	256 x 4	PROM (OC) (27S20)	10.95	9.31	7.20
27781CE	N82S129	DIP-16	256 x 4	PROM tri-state (27S21)	9.95	9.45	8.99
48910CE	74S571	DIP-16	512 x 4	Tri-state (27S13)	5.69	5.45	4.95
27799CE	N82S131	DIP-16	512 x 4	PROM tri-state (27S13)	7.99	6.99	5.99
48928CE	74S573	DIP-18	1k x 4	Tri-state (27S33)	3.39	2.89	2.59
27801CE	N82S137	DIP-18	1k x 4	PROM tri-state (27S33)	6.95	6.25	5.65
27810CE	N82S181	DIP-24	1k x 8	Bipolar PROM tri-state	6.59	5.59	4.89

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Details on page 284.

OTP/PROM

Part No.	Cross Ref.	Pkg.	Config.	Description	DIP  PLCC 		
					1	10	100
27828CE	N82S185	DIP-18	2k x 4	PROM tri-state	\$3.89	\$3.19	\$3.09
27836CE	N82S191	DIP-24	2k x 8	PROM tri-state	8.95	7.85	7.15
266212CE	27C64A-20	PLCC-32	8k x 8	200ns CMOS	2.19	2.09	1.69
394978CE	AT27C256R-45J1	PLCC-32	32k x 8	45ns OTP, LP, I-temp.	1.09	.88	.87
394986CE	AT27C256R-45P1	DIP-28	32k x 8	45ns OTP, LP, I-temp.	1.09	.88	.87
266327CE	27C256-55	PLCC-32	32k x 8	55ns CMOS	2.39	2.03	1.52
395014CE	AT27C256R-70J1	PLCC-32	32k x 8	70ns OTP, LP, I-temp.	.95	.76	.75
266319CE	27C256-70	PLCC-32	32k x 8	70ns CMOS	2.09	1.78	1.33
266280CE	27C256-10	PLCC-32	32k x 8	100ns CMOS	1.99	1.69	1.27
266255CE	27C256-15	PLCC-32	32k x 8	150ns CMOS	1.69	1.49	1.39
266247CE	27C256-20	PLCC-32	32k x 8	200ns CMOS	1.59	1.35	1.01
395049CE	AT27C512R-45P1	DIP-28	64k x 8	45ns OTP, LP, I-temp.	1.09	.88	.87
266386CE	27C512-55	PLCC-32	64k x 8	55ns CMOS	2.49	2.12	1.59
395073CE	AT27C512R-70J1	PLCC-32	64k x 8	70ns OTP, LP, I-temp.	1.09	.88	.87
395081CE	AT27C512R-70P1	DIP-28	64k x 8	70ns OTP, LP, I-temp.	1.09	.88	.87
266351CE	27C512-70	PLCC-32	64k x 8	70ns CMOS	2.29	1.95	1.46
203730CE	27C512-10	PLCC-32	64k x 8	100ns (12.5V) CMOS	1.99	1.89	1.79
203692CE	27C512-12 OTP	DIP-28	64k x 8	120ns (12.5V) CMOS	2.19	1.99	1.89
266343CE	27C512-15	PLCC-32	64k x 8	150ns CMOS	1.89	1.79	1.59
266335CE	27C512-20	PLCC-32	64k x 8	200ns CMOS	1.79	1.52	1.14
394644CE	AT27BV1024-12J1	PLCC-44	64k x 16	120ns 2.7V OTP high-spd, I-temp.	3.99	3.91	3.87
394652CE	AT27BV1024-12V1	VSOP-40	64k x 16	120ns 2.7V OTP high-spd, I-temp.	5.09	4.75	4.70
266811CE	27C010-55	PLCC-32	128k x 8	55ns CMOS	2.39	1.57	1.55
394695CE	AT27C010-70J1	PLCC-32	128k x 8	70ns OTP, I-temp.	2.15	1.75	1.52
394708CE	AT27C010-70P1	DIP-32	128k x 8	70ns OTP, I-temp.	1.25	1.05	1.04
266802CE	27C010-70	PLCC-32	128k x 8	70ns CMOS	2.29	1.95	1.46
203705CE	27C010-10 OTP	DIP-32	128k x 8	100ns (12.5V) CMOS	2.29	2.19	1.99
203748CE	27C010-10	PLCC-32	128k x 8	100ns (12.5V) CMOS	2.09	1.78	1.33
266790CE	27C010-15	PLCC-32	128k x 8	150ns CMOS	1.59	1.35	1.01
266394CE	27C010-20	PLCC-32	128k x 8	200ns CMOS	1.49	1.27	.95
267101CE	27C020-70	PLCC-32	256k x 8	70ns CMOS	3.89	3.31	2.48
394791CE	AT27C020-90P1	DIP-32	256k x 8	90ns OTP, I-temp.	1.65	1.40	1.38
203713CE	27C020-10 OTP	DIP-32	256k x 8	100ns (12.5V) CMOS	3.69	3.15	2.61
203756CE	27C020-10	PLCC-32	256k x 8	100ns (12.5V) CMOS	3.79	3.69	3.29
266888CE	27C020-15	PLCC-32	256k x 8	150ns CMOS	3.89	3.31	2.48
266853CE	27C020-20	PLCC-32	256k x 8	200ns (12V) CMOS	3.69	3.49	3.19
203764CE	27C040-10	PLCC-32	512k x 8	100ns (12.5V) CMOS	5.95	5.06	3.79
203721CE	27C040-12	DIP-32	512k x 8	120ns (12.5V) CMOS	3.65	3.32	3.02
267160CE	27C040-15	PLCC-32	512k x 8	150ns CMOS	3.79	3.22	2.42
267303CE	27C080-10	PLCC-32	1M x 8	100ns CMOS	9.99	8.89	7.69
267215CE	27C080-15	PLCC-32	1M x 8	150ns (12V) CMOS	7.65	7.25	6.55

♣ Blue Part No. = Limited Quantity Available

EEPROM

Part No.	Cross Ref.	Pkg.	Config.	Description	DIP  SOIC 		
					1	10	100
276584CE	24C00	SOIC-8	16 x 8	Serial	.32	.27	.20
276568CE	24C00	DIP-8	16 x 8	Serial	.26	.22	.166
200627CE	24C44	DIP-8	16 x 16	Serial CMOS	1.99	1.79	1.61
276955CE	93C46	SOIC-8	64 x 16	3-wire serial	.37	.31	.233
102058CE	93C46	DIP-8	64 x 16	Serial (5V)	.35	.30	.22
276592CE	24C01	DIP-8	128 x 8	2-wire serial	.36	.31	.23
276621CE	24C01	SOIC-8	128 x 8	2-wire serial	.29	.25	.18
368649CE	AT24C01A-10P1-27	DIP-8	128 x 8	2-wire serial, 2.7V, I-temp.	.28	.19	.185
368711CE	AT24C01A-10S1-27	SOIC-8	128 x 8	2-wire serial, 2.7V, I-temp.	.56	.481	.454
276971CE	93C56	SOIC-8	128 x 16	3-wire serial	.54	.46	.34
108855CE	93C56	DIP-8	128 x 16	Serial (5V)	.48	.438	.40
276630CE	24C02	SOIC-8	256 x 8	2-wire serial	.37	.31	.233
368868CE	AT24C02AN-10S1-27	SOIC-8	256 x 8	2-wire serial, 2.7V, I-temp.	.62	.59	.545
368913CE	AT24C02N-10S1-18	SOIC-8	256 x 8	2-wire serial, 1.8V, I-temp.	.58	.46	.415
108839CE	24C02P	DIP-8	256 x 8	Serial CMOS	.47	.40	.30
369617CE	AT25020A-10P1-27	DIP-8	256 x 8	SPI serial, 2.7V, I-temp.	.56	.54	.49
368737CE	AT25640AN-10S1-18	DIP-8	256 x 8	SPI serial, 1.8V, I-temp.	1.15	.90	.70

Memory (Continued)

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Part No.	Cross Ref.	Pkg.	Config.	Description	1	10	100
276980CE	93C66	SOIC-8	256 x 16	3-wire serial \$37	\$.35	\$.33	\$.30
200598CE	93C66	DIP-8	256 x 16	Serial (5V) .....	.69	.62	.55
276648CE	24C04	SOIC-8	512 x 8	2-wire serial .....	.34	.29	.22
368930CE	AT24C04A-10PI-27	DIP-8	512 x 8	2-wire serial, 2.7V, I-temp. ....	.53	.48	.33
108847CE	24C04P	DIP-8	512 x 8	Serial CMOS .....	.89	.79	.69
369086CE	AT24C04AN-10SI-27	SOIC-8	512 x 8	2-wire serial, 2.7V, I-temp. ....	.69	.66	.60
276664CE	24C08	SOIC-8	1k x 8	2-wire serial .....	.32	.27	.20
200547CE	24C08-10	DIP-8	1k x 8	Serial CMOS .....	.75	.71	.59
369220CE	AT24C08AN-10SI-27	SOIC-8	1k x 8	2-wire serial, 2.7V, I-temp. ....	.31	.305	.285
277018CE	93C86	SOIC-8	1k x 16	Microwire serial .....	.51	.46	.41
200601CE	93C86	DIP-8	1k x 16	Serial (5V) .....	.69	.62	.55
276681CE	24C16	SOIC-8	2k x 8	2-wire serial .....	.45	.42	.37
200555CE	24C16-10	DIP-8	2k x 8	Serial CMOS	1.19	1.05	.79
369369CE	AT24C16A-10PI-27	DIP-8	2k x 8	2-wire serial, 2.7V, I-temp. ....	.43	.33	.307
368809CE	AT24C16AN-10SI-1.8	SOIC-8	2k x 8	2-wire serial, 1.8V, I-temp. ....	.42	.407	.378
368948CE	AT24C16AN-10SI-27	SOIC-8	2k x 8	2-wire serial, 2.7V, I-temp. ....	.37	.36	.34
369836CE	AT25160-10PI-1.8	DIP-8	2k x 8	SPI serial, 1.8V, I-temp. ....	.92	.90	.80
369810CE	AT25160A-10PI-1.8	DIP-8	2k x 8	SPI serial, 1.8V, I-temp. ....	.52	.50	.453
369852CE	AT25160AN-10SI-27	SOIC-8	2k x 8	SPI serial, 2.7V, I-temp. ....	.72	.60	.53
395292CE	AT28BV16-25JC	PLCC-32	2k x 8	250ns 2.7V batt volt CMOS	3.25	3.22	3.19
276699CE	28C16	SOIC-24	2k x 8	Parallel	2.35	2.00	1.50
74691CE	28C16A-25	DIP-24	2k x 8	250ns (5V) CMOS DATA polling	3.99	3.69	3.39
276701CE	28C17	DIP-28	2k x 8	Parallel	2.29	2.05	1.95
40416CE	2817A-25+	DIP-28	2k x 8	250ns 5V read/write, Ready/Busy pin ..	7.95	7.15	6.49
276728CE	24C32	SOIC-8	4k x 8	2-wire serial .....	.56	.48	.36
200563CE	24C32-10	DIP-8	4k x 8	Serial CMOS	1.79	1.69	1.39
369449CE	AT24C32A-10PI-27	DIP-8	4k x 8	2-wire serial, 2.7V, I-temp. ....	.76	.65	.47
369473CE	AT24C32AN-10SI-1.8	SOIC-8	4k x 8	2-wire serial, 1.8V, I-temp. 0.15" W ..	.47	.46	.42
369481CE	AT24C32AN-10SI-27	SOIC-8	4k x 8	2-wire serial, 2.7V, I-temp. 0.15" W ..	1.09	.86	.77
369502CE	AT24C32AN-10SI-27	SOIC-8	4k x 8	2-wire serial, 2.7V, I-temp.	2.35	1.43	1.27
369983CE	AT25320AN-10SI-27	SOIC-8	4k x 8	SPI serial, 2.7V, I-temp.	1.49	1.43	1.30
276744CE	24C64	SOIC-8	8k x 8	2-wire serial .....	.66	.56	.42
369570CE	AT24C64A-10TI-27	TSSOP-8	8k x 8	2-wire serial, 2.7V, I-temp.	4.35	3.85	3.73
369537CE	AT24C64AN-10SI-27	SOIC-8	8k x 8	2-wire serial, 2.7V, I-temp. ....	.49	.48	.453
200619CE	24C65	DIP-8	8k x 8	Serial CMOS	1.89	1.69	1.49
276752CE	28C64	SOIC-28	8k x 8	EEPROM	3.69	3.49	3.43
74827CE	28C64A-25	DIP-28	8k x 8	250ns, 5V CMOS	4.49	4.05	3.65
40475CE	2865A+	DIP-28	8k x 8	250ns 5V read/write	4.95	4.49	4.05
276787CE	24C128	SOIC-8	16k x 8	2-wire serial	1.05	.89	.67
200571CE	24C128-10	DIP-8	16k x 8	Serial CMOS	1.85	1.48	1.20
369271CE	AT24C128-10PI-1.8	DIP-8	16k x 8	2-wire serial, 1.8V, I-temp.	1.89	1.86	1.65
369289CE	AT24C128-10PI-27	DIP-8	16k x 8	2-wire serial, 2.7V, I-temp.	1.89	1.85	1.70
369326CE	AT24C128W-10SI-27	SOIC-8	16k x 8	2-wire serial, 2.7V, I-temp.	1.89	1.83	1.68
276808CE	24C256	SOIC-8	32k x 8	2-wire serial	1.45	1.23	.92
200580CE	24C256-10	DIP-8	32k x 8	Serial CMOS	3.19	2.39	2.15
369406CE	AT24C256AN-10SI-1.8	SOIC-8	32k x 8	2-wire serial, 1.8V, I-temp.	3.15	2.54	2.25
369414CE	AT24C256AN-10SI-27	SOIC-8	32k x 8	2-wire serial, 2.7V, I-temp.	3.19	3.12	2.87
395330CE	AT28BV256-20SC	SOIC-28	32k x 8	200ns 2.7V batt volt parallel	11.45	10.70	10.60
276816CE	28C256	SOIC-28	32k x 8	Paged parallel CMOS	8.49	7.22	5.41
74878CE	28C256-25	DIP-28	32k x 8	250ns CMOS	8.75	7.45	5.59
74843CE	28C256-15	DIP-28	32k x 8	150ns CMOS	8.99	6.89	6.19
370183CE	AT28C256-15PC	DIP-28	32k x 8	150ns paged parallel	3.95	3.58	3.54
276875CE	24C512	SOIC-8	64k x 8	2-wire serial CMOS	2.65	2.51	2.29
276832CE	24C512	DIP-8	64k x 8	2-wire serial CMOS	2.29	2.23	1.99
276921CE	24C1024	SOIC-8	128k x 8	2-wire serial CMOS	7.59	6.45	4.84
276912CE	24C1024	DIP-8	128k x 8	2-wire serial CMOS	6.79	5.19	4.69
276947CE	28C010	PLCC-32	128k x 8	Paged parallel CMOS	18.69	15.89	11.91
242253CE	28C010-15	DIP-32	128k x 8	150ns, 5V CMOS	33.09	30.45	28.45
395372CE	AT28LV010-20TC	TSSOP-32	128k x 8	200ns 3V low volt paged parallel ..	37.29	34.69	34.34

◆ Refurbished = Backed by Jameco

ST Flash Memory



Part No.	Cross Ref.	Pkg.	Config.	Description	1	10	100
321605CE	M25P10-AVMN6	SOIC-8	128k x 8	3V w/ 40MHz SPI bus interf.	\$1.69	\$1.42	\$1.24
321648CE	M25P20-VMN6	SOIC-8	256k x 8	3V w/ 40MHz SPI bus interf.	1.95	1.64	1.49
321664CE	M25P40-VMN6	SOIC-8	512k x 8	3V w/ 40MHz SPI bus interf.	3.05	2.88	2.74
321672CE	M25P80-VMN6	SOIC-8	1M x 8	3V w/ 40MHz SPI bus interf.	3.35	2.98	2.83

DRAM



Part No.	Cross Ref.	Pkg.	Config.	Description	1	10	100
41339CE	4116-15	DIP-16	16k x 1	150ns (MM5290J-1R)	\$.99	\$.89	\$.80
41662CE	4164-150	DIP-16	64k x 1	150ns (MCM6665-15) .....	.59	.53	.48
41574CE	41464-10	DIP-18	64k x 4	100ns (HY53C464S-10)	1.69	1.65	1.59
41398CE	41256-120	DIP-16	256k x 1	120ns (MB81256-12) .....	.73	.62	.47
42315CE	514256P-80	DIP-20	256k x 4	80ns (UPD424256-80)	2.49	2.25	2.05
93374CE	514256P-70	DIP-20	256k x 4	70ns (TC514256P-70)	2.79	2.49	2.19
128688CE	HM514260	SOJ	256k x 16	70ns	3.39	2.88	2.16
42219CE	511000P-10	DIP-18	1M x 1	100ns (M5M4C1000-10)	2.25	1.99	1.79

◆ Pull = Extra Savings

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DRAM?

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DRAM modules.

Flash Memory



Part No.	Cross Ref.	Pkg.	Config.	Description	1	10	100
375929CE	AT29LV256-15JC	PLCC-32	32k x 8	150ns (3V)	\$4.45	\$4.41	\$4.37
376059CE	AT29C512-70JC	PLCC-32	64k x 8	70ns (5V)	1.75	1.52	1.50
242552CE	29C512-12	DIP-32	64k x 8	120ns (5V) CMOS	4.59	3.69	3.52
242561CE	29F512-90	DIP-32	64k x 8	90ns (5V) CMOS	4.69	3.89	3.59
375937CE	AT29LV512-15JC	PLCC-32	64k x 8	150ns (3V)	1.99	1.97	1.95
375785CE	AT49BV512-12JC	PLCC-32	64k x 8	120ns, single 2.7V	4.45	4.37	4.33
375961CE	AT29LV1024-15JC	PLCC-44	64k x 16	150ns (3V)	2.69	2.44	2.39
74771CE	28F010-15	DIP-32	128k x 8	150ns (12V) CMOS	6.95	6.25	5.65
376075CE	AT29C010A-70JC	PLCC-32	128k x 8	70ns (5V)	2.35	2.123	2.102
242587CE	29F010-120	DIP-32	128k x 8	120ns (5V) CMOS	3.95	3.65	3.15
242595CE	29F010-90	DIP-32	128k x 8	90ns (5V) CMOS	4.39	4.09	3.79
242608CE	29F010-70	DIP-32	128k x 8	70ns (5V) CMOS	6.09	4.99	4.49
375953CE	AT29LV010A-15JC	PLCC-32	128k x 8	150ns (3V)	2.39	2.14	2.12
74835CE	28F020-15	DIP-32	256k x 8	150ns (12V) CMOS	7.95	7.15	6.45
376121CE	AT29C020-90JI	PLCC-32	256k x 8	90ns (5V), I-temp.	3.39	2.62	2.42
242616CE	29F020-12	DIP-32	256k x 8	120ns (5V) CMOS	6.69	6.54	6.22
242624CE	29F020-90	DIP-32	256k x 8	90ns (5V) CMOS	\$5.09	3.69	3.31
375988CE	AT29LV020-20JC	PLCC-32	256k x 8	200ns (3V)	3.39	3.14	3.10
375814CE	AT49BV002A-70JI	PLCC-32	256k x 8	70ns, 2.7V, I-temp. w/ reset	1.79	1.58	1.51
376366CE	AT49F002ANT-55JI	PLCC-32	256k x 8	55ns (5V), I-temp.	2.05	1.61	1.59
376163CE	AT29C040A-90JI	PLCC-32	512k x 8	90ns (5V), 256-byte sector, I-temp.	4.39	4.01	3.97
242659CE	29F040-120	DIP-32	512k x 8	120ns (5V) CMOS	8.95	8.65	8.25
242667CE	29F040-90	DIP-32	512k x 8	90ns (5V) CMOS	12.05	11.45	10.85
375996CE	AT29LV040A-15JC	PLCC-32	512k x 8	150ns (3V), 256-byte sector	4.39	4.20	4.10
375911CE	AT49BV040A-70JI	PLCC-32	512k x 8	70ns, single 2.7V, I-temp.	2.05	2.03	2.01
277261CE	29F800-70	TSOP-48	1M x 8	70ns (5V) bottom boot	6.95	6.59	6.29
277270CE	29F800-120	TSOP-48	1M x 8	120ns (5V) top boot	\$3.69	3.45	3.14
277288CE	29F800-120	TSOP-48	1M x 8	120ns (5V) bottom boot	7.35	6.25	4.69
277448CE	28F128-150	TSOP-56	16M x 8	150ns (5V)	18.79	15.97	11.98

◆ Blue Part No. = Limited Quantity Available

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Static RAM

Part No.	Cross Ref.	Pkg.	Config.	Description	1	10	100
38931CE	2111-1	DIP-18	256 x 4	500ns (AM9111APC)	\$1.69	\$1.55	\$1.35
42198CE	5101	DIP-22	256 x 4	450ns (CMOS)	7.99	7.19	6.49
38957CE	2114N	DIP-18	1k x 4	450ns (9114BPC)	2.29	1.99	1.79
43238CE	6514	DIP-18	1k x 4	350ns CMOS (M58981P)	3.95	3.65	3.35
38973CE	2114N-2	DIP-18	1k x 4	200ns (9114EPC) (U214D20)	2.49	2.09	1.89
38981CE	2114N-2L	DIP-18	1k x 4	200ns low power	2.49	2.25	2.05
243475CE	MBM104174A-10	DIP-24	1k x 4	10ns ECL asynchronous	\$0.85 .70	.60	<u>.45</u>
392243CE	CY7C131-55JC	PLCC-52	1k x 8	55ns high spd, dual port CMOS	5.75	4.64	3.96
392462CE	CY7C4225V-15ASC	STOFP-64	1k x 18	15ns high spd, low-pwr FIFO synch.	17.79	17.59	17.42
38746CE	2016-20	DIP-24	2k x 8	200ns (MB8128-20) .....	.80	.73	.66
114260CE	DS1220Y-150	DIP-24	2k x 8	150ns 4.25V WP	11.95	10.95	9.85
25911CE	MK48Z02B-15	DIP-24	2k x 8	150ns (16kB) zero-power RAM	6.89	6.39	6.06
42809CE	6116P-3	DIP-24	2k x 8	150ns (16kB) CMOS	1.49	1.29	1.09
42753CE	6116LP-3	DIP-24	2k x 8	150ns (16kB) LP CMOS	1.95	1.75	1.59
38738CE	2016-12	DIP-24	2k x 8	120ns (AM9128-12)	1.49	1.27	<u>.95</u>
42796CE	6116P-2	DIP-24	2k x 8	120ns (16kB) CMOS	1.59	1.39	1.29
42788CE	6116P-1	DIP-24	2k x 8	100ns (16kB) CMOS	1.69	1.49	1.39
42737CE	6116LP-1	DIP-24	2k x 8	100ns (16kB) LP CMOS	1.99	1.79	1.65
242675CE	6116-70	DIP-24	2k x 8	70ns (5V) CMOS async.	2.09	1.99	1.89
242712CE	CY7C128A-15	DIP-24	2k x 8	15ns (5V) CMOS async.	\$5.19 4.45	3.78	<u>2.84</u>
242704CE	CY7C128A-25	DIP-24	2k x 8	25ns (5V) CMOS async.	4.69	2.64	<u>1.98</u>
242691CE	CY7C128A-35	DIP-24	2k x 8	35ns (5V) CMOS async.	\$4.49 4.05	3.28	2.58
242683CE	CY7C128A-45	DIP-24	2k x 8	45ns (5V) CMOS async.	\$8.85 7.95	6.68	5.68
392446CE	CY7C4235V-15ASC	STOFP-64	2k x 18	15ns high spd, low volt FIFO synch.	16.59	16.24	16.08
242721CE	6264-55	DIP-28	8k x 8	55ns (5V) CMOS async.	\$3.29 2.95	2.51	<u>1.88</u>
392294CE	CY6264-70SNC	SOIC-28	8k x 8	70ns high performance CMOS	3.09	2.51	1.98
85121CE	6264LP-70	DIP-28	8k x 8	70ns (64kB) LP CMOS	3.39	3.05	2.75
42884CE	6264LP-10	DIP-28	8k x 8	100ns (64kB) LP CMOS	2.75	2.49	2.25
42921CE	6264P-10	DIP-28	8k x 8	100ns (64kB) CMOS	2.59	2.29	1.99
42892CE	6264LP-12	DIP-28	8k x 8	120ns (64kB) LP CMOS	2.79	2.49	2.19
42930CE	6264P-12	DIP-28	8k x 8	120ns (64kB) CMOS	2.65	2.39	2.15
114278CE	DS1225AB-150	DIP-28	8k x 8	150ns, 4.62V WP	17.29	14.49	9.89
114307CE	DS1225Y-200	DIP-28	8k x 8	200ns, 4.25V WP	15.95	14.49	11.65
242350CE	7C185-20	DIP-28	8k x 8	20ns 5V asynchronous	2.89	2.29	1.79
242341CE	CY7C185-25	DIP-28	8k x 8	25ns (5V) CMOS async.	2.89	2.29	1.79
242333CE	CY7C185-35	DIP-28	8k x 8	35ns (5V) CMOS async.	2.89	2.29	1.79
242499CE	DS1230Y-70	DIP-28	32k x 8	70ns nonvol. 4.5V WP	22.85	19.95	14.27
177113CE	DS1230Y-100	DIP-28	32k x 8	100ns, 4.37V WP	17.75	13.75	12.85
114323CE	DS1230Y-150	DIP-28	32k x 8	150ns, 4.37V WP	19.95	18.95	15.15
41970CE	43256-10L	DIP-28	32k x 8	100ns low-power NEC	5.49	4.99	4.49
41988CE	62256-12L	DIP-28	32k x 8	120ns low-power NEC	4.99	4.49	4.09
242376CE	M5M5258P-35	DIP-28	32k x 8	35ns 5V asynchronous	1.99	1.59	1.19
75037CE	UM61M256K-15	DIP-28	32k x 8	15ns hi speed CMOS (.3W)	3.39	2.99	2.69
279865CE	62256S-12	SOJ-28	32k x 8	120ns	1.85	1.57	<u>1.18</u>
279857CE	62256S-15	SOJ-28	32k x 8	150ns	1.49	1.27	.99
82472CE	62256LP-70	DIP-28	32k x 8	70ns low-power CMOS	5.49	4.99	4.49
391793CE	CY62256L-70PC	DIP-28	32k x 8	70ns 5V CMOS	3.55	2.86	2.35
391814CE	CY62256L-70SNC	SOIC-28	32k x 8	70ns 5V CMOS	3.19	2.60	2.05
391822CE	CY62256LL-70PC	DIP-28	32k x 8	70ns 5V low-power CMOS	3.55	2.86	2.25
391890CE	CY62256LL-70SNC	SOIC-28	32k x 8	70ns 5V low-power CMOS	3.55	2.86	2.25
392008CE	CY62256LL-70SNC	SOIC-28	32k x 8	70ns 3V low-power CMOS	2.39	1.94	1.52
391945CE	CY62256LL-70ZC	TSSOP-28	32k x 8	70ns 5V low-power CMOS	3.55	2.86	2.25
391865CE	CY62256VLL-70ZC	TSSOP-28	32k x 8	70ns 3V low-power CMOS	2.39	1.94	1.52
279814CE	62256S-70	SOJ-28	32k x 8	70ns 5V CMOS	1.59	1.35	<u>1.01</u>
42876CE	62256LP-85	DIP-28	32k x 8	85ns low-power CMOS	3.09	2.49	1.99
42833CE	62256LP-10	DIP-28	32k x 8	100ns low-power CMOS	4.19	3.55	<u>2.65</u>
42850CE	62256LP-12	DIP-28	32k x 8	120ns low-power CMOS	3.89	3.49	3.19
391857CE	CY7C1399B-12VC	SOJ-28	32k x 8	12ns 3.3V high perf. CMOS	1.65	1.48	1.47
279849CE	CY7C199-20V	SOJ-28	32k x 8	20ns	1.75	1.49	<u>1.12</u>
279831CE	CY7C199-25V	SOJ-28	32k x 8	25ns	1.65	1.39	1.05
279822CE	CY7C199-35V	SOJ-28	32k x 8	35ns	1.59	1.29	1.09
392382CE	CY7C464A-15JC	PLCC-32	32k x 9	15ns asynch. cascable FIFO	27.09	26.82	26.55

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Static RAM (Continued)

Part No.	Cross Ref.	Pkg.	Config.	Description	1	10	100
392067CE	CY7C1021CV33-10ZC	TSSOP-44	64k x 16	10ns 3.3V high perf. CMOS	\$3.29	\$2.66	\$2.09
391873CE	CY7C1021CV33-12VC	SOJ-44	64k x 16	12ns 3.3V high perf. CMOS	2.99	2.42	1.90
391929CE	CY7C1021BV33L-15ZC	TSSOP-44	64k x 16	15ns 3.3V CMOS, low standby pwr ..	3.29	2.66	2.09
392411CE	CY7C1021CV33-15ZC	TSSOP-44	64k x 16	15ns 3.3V high perf. CMOS	2.99	2.41	1.91
391831CE	CY62128BLL-70SC	SOIC-32	128k x 8	70ns LP CMOS	2.95	2.61	2.58
391996CE	CY62128BLL-70ZC	TSSOP-32	128k x 8	70ns high perf. CMOS	3.39	2.74	2.15
279873CE	628128S-70	SOP-32	128k x 8	70ns	2.49	2.19	1.89
131810CE	628128LP-70	DIP-32	128k x 8	70ns LP CMOS	8.99	7.39	6.69
103982CE	628128LP-85	DIP-32	128k x 8	85ns LP CMOS	8.49	7.49	6.79
279911CE	CY7C109B-12V	SOJ-32	128k x 8	12ns	2.99	2.54	<u>1.91</u>
391902CE	CY7C109CV33-12VC	SOJ-32	128k x 8	12ns 3.3V high perf. CMOS	3.29	2.66	2.09
392251CE	CY7C1009B-15VC	SOJ-32	128k x 8	15ns CMOS, 2 chip enables	3.55	2.86	2.25
280014CE	625616S-70	SOP-44	256k x 16	70ns	7.39	6.28	<u>4.71</u>
392358CE	CY7C1041CV33-12ZC	TSSOP-44	256k x 16	12ns 3.3V high perf. CMOS	4.95	4.49	4.03
280031CE	CY7C1041B-15V	SOJ-44	256k x 16	15ns	8.09	7.09	6.99
392198CE	CY7C1041B-15ZC	TSSOP-44	256k x 16	15ns high perf. CMOS	5.19	4.73	4.49
157358CE	628512LP-70	DIP-32	512k x 8	70ns LP CMOS	18.99	16.99	16.19
280049CE	628512S-70	SOP-32	512k x 8	70ns	3.45	3.25	3.05
280065CE	CY7C1049B-20V	SOJ-36	512k x 8	20ns	9.99	8.89	7.79

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PALs and GALs

Part No.	Cross Ref.	Pkg.	Description	1	10	100
27748CE	N82S100	DIP-28	16 x 48 x 8 field-prog. logic array, 3-st.	\$14.95	\$13.49	\$12.15
28020CE	PAL16L8	DIP-20	Octal 16-input AND-OR-INVERT gate array ..	2.25	1.75	1.66
88399CE	16V8-10*	DIP-20	10ns 64 x 32 AND array	2.59	2.35	2.10
37452CE	16V8-15*	DIP-20	15ns 64 x 32 AND array	1.39	1.25	1.12
77461CE	16V8-25*	DIP-20	25ns 64 x 32 AND array	1.25	1.09	.99
88292CE	20V8-10**	DIP-24	10ns 64 x 40 AND array	1.85	1.60	1.43
38658CE	20V8-15**	DIP-24	15ns 64 x 40 AND array	1.55	1.25	1.15
38666CE	20V8-25**	DIP-24	25ns 64 x 40 AND array	1.69	1.49	1.39
235352CE	20VP8-25LJ	PLCC-28	25ns 64 x 40 AND array	3.59	3.04	<u>2.28</u>
123801CE	22V10-10	DIP-24	10ns 132 x 44 AND array	5.49	4.99	4.49
39159CE	22V10-15	DIP-24	15ns 132 x 44 AND array	4.49	3.95	3.55
39167CE	22V10-25	DIP-24	25ns 132 x 44 AND array	3.99	3.49	3.09

GALs are electrically erasable PLDs that can be used in place of numerous PALs

* Replaces PALs: 10H8, 10L8, 10P8, 12H6, 12L6, 12P6, 14H4, 14L4, 14P4, 16H2, 16H8, 16L2, 16L8, 16P2, 16P8, 16R4, 16R6, 16R8, 16RP4, 16RP6, 16RP8

** Replaces PALs: 14H8, 14L8, 14P8, 16H6, 16L6, 16P6, 18H4, 18L4, 18P4, 20H2, 20H8, 20L2, 20L8, 20P2, 20P8, 20R4, 20R6, 20R8, 20RP4, 20RP6, 20RP8

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Jameco Part No.	Product No.	Jameco® Price	Digi-Key® Price	Mouser® Price	Newark® Price	Minimum Savings	Discount
276630CE	EEPROM, AT25160-10PI, DIP	\$0.37	\$0.54	\$0.45	\$0.52	\$0.08	17.8%
369836CE	EEPROM, 24C02, SOIC	\$0.92	\$1.15	\$1.12	\$1.29	\$0.20	17.9%
88292CE	PEEL, 18CV8PI-25L, DIP	\$1.85	\$3.23	\$4.15	Not offered	\$1.38	42.7%
315184CE	PEEL, 22CV10AJ-10, PLCC	\$2.05	\$4.17	\$2.25	\$11.11	\$0.20	8.9%
392008CE	SRAM, CY62256VLL-70SNC, SOIC	\$2.39	\$2.45	Not offered	\$3.19	\$0.06	2.4%
392243CE	SRAM, CY7C131-55JC, PLCC	\$5.75	\$6.90	Not offered	\$11.92	\$1.15	16.7%
391857CE	SRAM, CY7C1399B-12VC, SOJ	\$1.65	\$1.80	Not offered	\$4.46	\$0.15	8.3%

These are single unit prices taken from each party's website on September 9, 2005, and do not include shipping & handling charges, volume discounts or any other discounts. Pricing does fluctuate, so please be sure to check when making purchases.

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DIP PLCC SOIC TSSOP

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† I = Industrial Temp range: -40°C to +85°C; C = Commercial Temp. range: 0 to +70°C

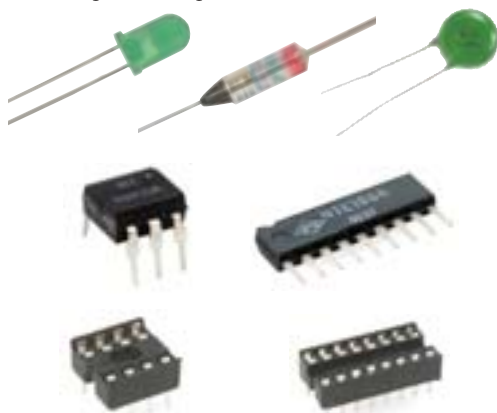
Part No.	Product No.*	Pkg.	Speed	Icc	Inputs	I/O	Vcc	Temp.†	1	10	100	Part No.	Product No.*	Pkg.	Speed	Icc	Inputs	I/O	Vcc	Temp.†	1	10	100
312987CE	16CV8J-25	PLCC-20	25ns	12mA	10	8	5	C	\$1.19	\$1.07	\$0.99	313023CE	18LV8ZPI-35	DIP-20	35ns	5uA	10	8	3	I	\$4.79	\$3.19	\$2.89
312995CE	16CV8P-25	DIP-20	25ns	12mA	10	8	5	C	1.19	.82	.74	313031CE	18LV8ZSI-35	SOIC-20	35ns	5uA	10	8	3	I	4.89	3.29	2.99
313007CE	16CV8S-25	SOIC-20	25ns	12mA	10	8	5	C	1.59	1.08	.97	313040CE	18LV8ZTI-35	TSSOP-20	35ns	5uA	10	8	3	I	5.19	3.49	3.15
314675CE	18CV8J-10	PLCC-20	10ns	10mA	10	8	5	C	2.75	1.85	1.65	315336CE	22CV10AJ-7	PLCC-28	7ns	50mA	12	10	5	C	4.45	3.35	2.55
313761CE	18CV8J-15	PLCC-20	15ns	10mA	10	8	5	C	1.99	1.69	1.49	315184CE	22CV10AJ-10	PLCC-28	10ns	50mA	12	10	5	C	2.05	1.79	1.78
313058CE	18CV8J-25	PLCC-20	25ns	10mA	10	8	5	C	1.89	1.39	1.25	315109CE	22CV10AJ-15	PLCC-28	15ns	35mA	12	10	5	C	3.45	2.59	1.99
313795CE	18CV8JI-15	PLCC-20	15ns	10mA	10	8	5	I	2.99	1.99	1.82	314860CE	22CV10AJ-25	PLCC-28	25ns	18mA	12	10	5	C	3.35	2.49	1.89
313066CE	18CV8JI-25	PLCC-20	25ns	10mA	10	8	5	I	2.49	1.69	1.55	315361CE	22CV10AP-7	DIP-24	7ns	50mA	12	10	5	C	4.29	3.19	2.45
314801CE	18CV8P-7	DIP-20	7ns	42mA	10	8	5	C	3.05	2.05	1.85	315205CE	22CV10AP-10L	DIP-24	10ns	50mA	12	10	5	C	2.85	2.45	2.09
314721CE	18CV8P-10	DIP-20	10ns	42mA	10	8	5	C	2.69	1.79	1.65	315125CE	22CV10AP-15L	DIP-24	15ns	35mA	12	10	5	C	3.39	2.55	1.95
314739CE	18CV8PI-10	DIP-20	10ns	42mA	10	8	5	I	3.19	2.15	1.95	105996CE	22CV10AP-25	DIP-24	25ns	5uA	12	10	5	C	2.59	2.35	2.05
314659CE	18CV8P-15L	DIP-20	15ns	25mA	10	8	5	C	1.85	1.59	1.45	314886CE	22CV10AP-25	DIP-24	25ns	18mA	12	10	5	I	2.85	2.45	1.99
105953CE	18CV8P-25	DIP-20	25ns	25mA	10	8	5	C	2.25	1.99	1.79	314931CE	22CV10AZJ-25	PLCC-28	25ns	10uA	12	10	5	C	3.75	2.85	2.39
313074CE	18CV8PI-25L	DIP-20	25ns	10mA	10	8	5	I	1.89	1.59	1.40	314940CE	22CV10AZJ-25	PLCC-28	25ns	10uA	12	10	5	I	6.85	5.19	3.95
314747CE	18CV8S-10	SOIC-20	10ns	42mA	10	8	5	C	2.55	1.71	1.69	314958CE	22CV10AZP-25	DIP-24	25ns	10uA	12	10	5	C	5.35	3.89	3.09
314077CE	18CV8S-15L	SOIC-20	15ns	25mA	10	8	5	C	2.55	1.69	1.55	314991CE	22CV10AZT-25	TSSOP-24	25ns	10uA	12	10	5	C	5.79	4.39	3.35
313242CE	18CV8S-25	SOIC-20	25ns	10mA	10	8	5	C	2.15	1.45	1.29	315002CE	22CV10AZT-25	TSSOP-24	25ns	10uA	12	10	5	I	6.95	5.29	4.05
313251CE	18CV8SI-25	SOIC-20	25ns	10mA	10	8	5	I	2.59	1.69	1.55	315011CE	22LV10AZJ-25	PLCC-28	25ns	5uA	12	10	3	C	6.15	4.65	3.55
313349CE	18CV8T-25L	TSSOP-20	25ns	10mA	10	8	5	C	2.45	1.65	1.49	315029CE	22LV10AZP-25	DIP-24	25ns	5uA	12	10	3	C	5.89	4.45	3.39
313365CE	18CV8ZJ-25	PLCC-20	25ns	10uA	10	8	5	C	3.79	2.55	2.29	315045CE	22LV10AZT-25	TSSOP-24	25ns	5uA	12	10	3	C	6.29	4.79	3.65
313373CE	18CV8ZJ-25	PLCC-20	25ns	10uA	10	8	5	I	4.59	3.09	2.79	316857CE	PA7540P-15	DIP-24	15ns	55mA	2	20	5	C	8.09	6.09	4.69
313381CE	18CV8ZP-25L	DIP-20	25ns	10uA	10	8	5	C	3.65	2.45	2.19	316902CE	PA7540J-15L	PLCC-28	15ns	55mA	2	20	5	C	8.25	6.19	4.75
313509CE	18CV8ZPI-25	DIP-20	25ns	10uA	10	8	5	I	4.39	2.95	2.59	316903CE	PA7540J-15L	PLCC-28	15ns	55mA	2	20	5	C	8.25	6.19	4.75
313525CE	18CV8ZS-25	SOIC-20	25ns	10uA	10	8	5	C	3.75	2.49	2.29	317032CE	PA7536J-15	PLCC-28	15ns	45mA	14	12	5	C	7.29	5.49	4.19
313699CE	18LV8ZJ-25	PLCC-20	25ns	5uA	10	8	3	C	4.19	2.84	2.55	317075CE	PA7572P-20	DIP-40	20ns	50mA	14	24	5	C	8.99	6.79	5.19
313701CE	18LV8ZP-25	DIP-20	25ns	5uA	10	8	3	C	3.99	2.69	2.39	317104CE	PA7572J-20	PLCC-44	20ns	50mA	14	24	5	C	8.99	6.79	5.19
313752CE	18LV8ZT-25	TSSOP-20	25ns	5uA	10	8	3	C	4.35	2.95	2.65												
313015CE	18LV8ZJI-35	PLCC-20	35ns	5uA	10	8	3	I	4.99	3.39	3.05												

* For a device cross reference list, please go to our website at www.Jameco.com and simply enter any of the above part numbers in our search engine. + Lead-free Blue P/N = Limited Qty

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	DIP	CD74AC(T)XXE	74AC(T)XXXN	74AC(T)XXXPC	MC74AC(T)XXXN	74AC(T)XXXB	74AC(T)XXXN	TC74AC(T)XXXP
	SOIC	SN74AC(T)XXD/DW	74AC(T)XXXM	74AC(T)XXXSC	MC74AC(T)XXD/DW	74AC(T)XXXM	74AC(T)XXD	TC74AC(T)XXFN/FW
	SOIC	CD74AC(T)XXXM	74AC(T)XXXM	74AC(T)XXXSC	MC74AC(T)XXD/DW	74AC(T)XXXM	74AC(T)XXD	TC74AC(T)XXFN/FW

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			Part No.	T.I. Product No.	1	10 100
74AC00	SOIC-14	Quad 2-input NAND gates	263880CE	SN74AC00D	* .16	\$.156
74AC00	DIP-14	Quad 2-input NAND gates	256858CE	SN74AC00N	.28	.26 .204
74AC02	SOIC-14	Quad 2-input NOR gates	264090CE	SN74AC02M	.26	.23 .17
74AC02	DIP-14	Quad 2-input NOR gates	256891CE	CD74AC02E	.22	.182 .166
74AC04	SOIC-14	Hex inverters	264111CE	SN74AC04D	* .17	.15
74AC04	DIP-14	Hex inverters	256903CE	SN74AC04N	.31	.265 .185
74AC08	SOIC-14	Quad 2-input AND gates	264137CE	SN74AC08D	.26	.23 .18
74AC08	DIP-14	Quad 2-input AND gates	256911CE	SN74AC08N	.28	.268 .196
74AC10	SOIC-14	Triple 3-input NAND gates	264153CE	SN74AC10D	.26	.23 .175
74AC10	DIP-14	Triple 3-input NAND gates	256920CE	SN74AC10N	.41	.35 .25
74AC11	SOIC-14	Triple 3-input AND gates	264170CE	SN74AC11D	.32	.26 .18
74AC11	DIP-14	Triple 3-input AND gates	256938CE	SN74AC11N	.32	.26 .18
74AC14	SOIC-14	Hex inverters with Schmitt trigger input	264209CE	SN74AC14D	.20	.17 .15
74AC14	DIP-14	Hex inverters with Schmitt trigger input	261366CE	SN74AC14N	.23	.21 .20
74AC20	SOIC-14	4-input NAND gate	264233CE	CD74AC20M	.26	.23 .18
74AC20	DIP-14	4-input NAND gate	261382CE	CD74AC20N	.39	.32 .22
74AC32	SOIC-14	Quad 2-input OR gates	264268CE	SN74AC32D	.26	.23 .18
74AC32	DIP-14	Quad 2-input OR gates	261391CE	SN74AC32N	.25	.219 .194
74AC74	SOIC-14	Dual D-type pos. edge-triggered flip-flops	264284CE	SN74AC74D	.31	.26 .193
74AC74	DIP-14	Dual D-type pos. edge-triggered flip-flops	261403CE	SN74AC74N	.40	.34 .24
74AC86	SOIC-14	Quad 2-input exclusive OR gates	264305CE	SN74AC86D	.20	.17 .14
74AC86	DIP-14	Quad 2-input exclusive OR gates	261454CE	SN74AC86N	.32	.26 .18
74AC109	SOIC-16	Dual JK positive edge triggered flip-flops				
74AC109	DIP-16	Dual JK positive edge triggered flip-flops	261462CE	CD74AC109E	.47	.40 .29
74AC125	SOIC-16	Quad buffers with 3-state outputs				
74AC125	DIP-14	Quad buffers with 3-state outputs				
74AC138	SOIC-16	1 of 8 decoder/demultiplexer	264364CE	CD74AC138M	.41	.34 .23
74AC138	DIP-16	1 of 8 decoder/demultiplexer	261471CE	CD74AC138E	.36	.308 .231
74AC139	SOIC-16	Dual 1 of 4 decoder/demultiplexer	264508CE	CD74AC139M	.56	.43 .32
74AC139	DIP-16	Dual 1 of 4 decoder/demultiplexer	261500CE	CD74AC139E	.49	.41 .29
74AC151	SOIC-16	Quad buffers with 3-state outputs				
74AC151	DIP-16	Quad buffers with 3-state outputs	261526CE	CD74AC151E	.46	.35 .26
74AC153	SOIC-16	Dual 4-input multiplexers	264532CE	CD74AC153M	.42	.36 .26
74AC153	DIP-16	Dual 4-input multiplexers	261534CE	CD74AC153E	.49	.41 .29
74AC157	SOIC-16	Quad 2-input multiplexers	264559CE	CD74AC157M	.41	.38 .34
74AC157	DIP-16	Quad 2-input multiplexers	261542CE	CD74AC157E	.47	.36 .27
74AC161	SOIC-16	Synchronous presettable binary counter	264575CE	CD74AC161M	.24	.229 .185
74AC161	DIP-16	Synchronous presettable binary counter	261551CE	CD74AC161E	.42	.356 .288
74AC163	SOIC-16	Binary counter	264591CE	CD74AC163M	.49	.41 .36
74AC163	DIP-16	Binary counter	261585CE	CD74AC163E	.50	.38 .29
74AC169	SOIC-16	4-stage synchronous bidirectional counter				
74AC169	DIP-16	4-stage synchronous bidirectional counter				
74AC174	SOIC-16	Hex D-type flip-flops w/ master reset	264858CE	CD74AC174M	.46	.35 .27
74AC174	DIP-16	Hex D-type flip-flops w/ master reset	261593CE	CD74AC174E	.50	.38 .29
74AC175	SOIC-16	Quad D-type flip-flops	264874CE	CD74AC175M	.46	.35 .26
74AC175	DIP-16	Quad D-type flip-flops				
74AC191	SOIC-16	Up/down counter w/ preset & ripple clock				
74AC191	DIP-16	Up/down counter w/ preset & ripple clock				
74AC240	SOIC-20	Octal invert. buffer/line drivers w/ 3-state outputs	264971CE	SN74AC240DW	.45	.36 .28
74AC240	DIP-20	Octal invert. buffer/line drivers w/ 3-state outputs	261614CE	SN74AC240N	.32	.264 .239
74AC241	SOIC-20	Octal buffer/line drivers w/ 3-state outputs	265543CE	SN74AC241DW	.45	.36 .28

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211801CE	74AC00N	.24	.216	.185
264081CE	74AC02M	.24	.21	.157
211810CE	74AC02N	.20	.17	.13
264102CE	74AC04M	* .16	.13	
211828CE	74AC04N	.28	.241	.168
264129CE	74AC08M	.24	.21	.157
211836CE	74AC08N	.25	.244	.176
264145CE	74AC10M	.24	.21	.157
238887CE	74AC10N	.31	.26	.20
264161CE	74AC11M	.30	.23	.17
238895CE	74AC11N	.32	.261	.176
264196CE	74AC14M	* .149	.13	
211844CE	74AC14N	.21	.18	.13
264225CE	74AC20M	.24	.21	.157
238836CE	74AC20N	.35	.30	.22
264241CE	74AC32M	.24	.21	.16
211852CE	74AC32N	.23	.199	.176
264276CE	74AC74M	.28	.24	.17
211861CE	74AC74N	.37	.30	.221
264292CE	74AC86M	* .149	.13	
211879CE	74AC86N	.29	.26	.22
264313CE	74AC109M	.45	.39	.29
238908CE	74AC109N	.43	.37	.269
264321CE	74AC125M	.48	.36	.27
238916CE	74AC125N	.38	.329	.249
264348CE	74AC138M	.38	.31	.21
211887CE	74AC138N	.33	.28	.21
264495CE	74AC139M	.51	.39	.29
238730CE	74AC139N	.44	.329	.249
264516CE	74AC151M	.39	.32	.24
238748CE	74AC151N	.42	.32	.24
264524CE	74AC153M	.39	.32	.24
238756CE	74AC153N	.44	.37	.27
264541CE	74AC157M	.38	.32	.24
238764CE	74AC157N	.43	.32	.24
264567CE	74AC161M	.22	.208	.168
238772CE	74AC161N	.38	.324	.262
264583CE	74AC163M	.44	.37	.27
238781CE	74AC163N	.46	.35	.27
265818CE	74AC169M	.68	.57	.47
238799CE	74AC169N	.93	.84	.77
264840CE	74AC174M	.42	.32	.24
238801CE	74AC174N	.46	.35	.27
264866CE	74AC175M	.42	.32	.24
238810CE	74AC175N	.51	.382	.295
264903CE	74AC191M	1.15	.98	.80
238828CE	74AC191N	.89	.76	.61
264938CE	74AC240M	.41	.33	.25
211895CE	74AC240N	.30	.241	.218
265535CE	74AC241M	.41	.33	.25

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74AC244	SOIC-20	Octal buffer/line driv. w/ 3-state outputs	265560CE SN74AC244DW45 .36 .28
74AC244	DIP-20	Octal buffer/line driv. w/ 3-state outputs	261796CE SN74AC244N ..... .36 .30 .258
74AC245	SOIC-20	Octal bidirectional trans. w/ 3-state I/O	265594CE SN74AC245DW ..... .45 .36 .28
74AC245	DIP-20	Octal bidirectional trans. w/ 3-state I/O	261817CE SN74AC245N ..... .40 .35 .33
74AC251	SOIC-16	8-input multiplexer w/ 3-state output	265615CE CD74AC251M ..... .54 .47 .39
74AC251	DIP-16	8-input multiplexer w/ 3-state output	
74AC253	SOIC-16	Dual 4-input multiplexer w/ 3-state outputs	265640CE CD74AC253M ..... .49 .37 .28
74AC253	DIP-16	Dual 4-input multiplexer w/ 3-state outputs	
74AC257	SOIC-16	Quad 2-input multiplexer	265666CE CD74AC257M ..... .41 .37 .28
74AC257	DIP-16	Quad 2-input multiplexer	261956CE CD74AC257E ..... .41 .38 .36
74AC273	SOIC-20	Octal D-type flip-flop	265682CE CD74AC273M ..... .56 .53 .46
74AC273	DIP-20	Octal D-type flip-flop	261964CE CD74AC273E ..... .44 .38 .37
74AC299	SOIC-20	8-input univ. shift/storage reg. w/com. parallel I/O pins	
74AC299	DIP-20	8-input univ. shift/storage reg. w/com. parallel I/O pins	
74AC373	SOIC-20	Octal transparent latch w/ 3-state outputs	265703CE SN74AC373DW ..... .56 .52 .49
74AC373	DIP-20	Octal transparent latch w/ 3-state outputs	261981CE SN74AC373N ..... .54 .38 .32
74AC374	SOIC-20	Octal D-type flip-flop w/ 3-state outputs	265720CE SN74AC374DW ..... .30 .29 .27
74AC374	DIP-20	Octal D-type flip-flop w/ 3-state outputs	262035CE SN74AC374N ..... .65 .59 .53
74AC377	SOIC-20	Octal D-type flip flop w/ clock enable	
74AC377	DIP-20	Octal D-type flip flop w/ clock enable	
74AC399	DIP-16	Quad 2-port register	
74AC521	SOIC-20	8-bit identity comparator	
74AC521	DIP-20	8-bit identity comparator	
74AC540	SOIC-20	Octal buffer/line driver w/ 3-state outputs	265746CE CD74AC540M ..... .83 .74 .60
74AC540	DIP-20	Octal buffer/line driver w/ 3-state outputs	
74AC541	SOIC-20	Octal buffer/line driver w/ 3-st. NOR gate enabled	265762CE CD74AC541M ..... .83 .74 .59
74AC541	DIP-20	Octal buffer/line driver w/ 3-st. NOR gate enabled	262051CE CD74AC541E ..... .83 .66 .50
74AC573	SOIC-20	Octal latch w/ 3-state outputs	265789CE SN74AC573DW ..... .45 .36 .28
74AC573	DIP-20	Octal latch w/ 3-state outputs	262086CE SN74AC573N ..... .48 .40 .302
74AC574	SOIC-20	Octal D-type flip-flop w/ 3-state outputs	265800CE SN74AC574DW ..... .45 .36 .28
74AC574	DIP-20	Octal D-type flip-flop w/ 3-state outputs	262094CE SN74AC574N63 .56 .49

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Part No.	Cross Ref.	1	10	100
238844CE	74AC241N	\$.41	\$.33	\$.25
265551CE	74AC244M	.41	.33	.25
211908CE	74AC244N	.33	.28	.21
265586CE	74AC245M	.41	.33	.25
211916CE	74AC245N	.33	.28	.21
265607CE	74AC251M	.49	.43	.35
238852CE	74AC251N	.44	.329	.249
265623CE	74AC253M	.44	.34	.25
238861CE	74AC253N	.42	.32	.24
265658CE	74AC257M	.38	.32	.25
238879CE	74AC257N	.38	.35	.33
265674CE	74AC273M	.51	.48	.45
211924CE	74AC273N	.40	.34	.26
265826CE	74AC299M	1.79	1.45	1.09
238924CE	74AC299N	1.35	1.25	1.05
265691CE	74AC373M	.51	.48	.45
211932CE	74AC373N	.40	.36	.32
265711CE	74AC374M	.30	.29	.25
211941CE	74AC374N	.51	.43	.323
265851CE	74AC377M	.66	.61	.54
242763CE	74AC377N	.54	.46	.328
238941CE	74AC399N	1.85	1.69	1.52
265869CE	74AC521M	.69	.62	.56
238959CE	74AC521N	.71	.54	.408
265738CE	74AC540M	.75	.67	.55
238967CE	74AC540N	.54	.46	.34
265754CE	74AC541M	.75	.67	.55
238975CE	74AC541N	.59	.50	.38
265771CE	74AC573M	.41	.33	.25
238983CE	74AC573N	.44	.37	.28
265797CE	74AC574M	.41	.33	.25
238991CE	74AC574N	.57	.48	.36

74ACT Series – ACT family offers TTL inputs with CMOS outputs

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Base No.	Package	Description	Part No. T.I. Product No. 1 10 100
74ACT00	SOIC-14	Quad 2-input NAND gate	265885CE SN74ACT00D \$.20 \$.19 \$.16
74ACT00	DIP-14	Quad 2-input NAND gate	262326CE SN74ACT00N ..... .28 .24 .20
74ACT02	SOIC-14	Quad 2-input NOR gate	265922CE CD74ACT02M ..... .22 .20 .16
74ACT02	DIP-14	Quad 2-input NOR gate	262334CE CD74ACT02E ..... .40 .324 .238
74ACT04	SOIC-14	Hex inverter	265949CE SN74ACT04D ..... .22 .20 .16
74ACT04	DIP-14	Hex inverter	262342CE SN74ACT04N ..... .28 .22 .18
74ACT08	SOIC-14	Quad 2-input AND gate	266141CE SN74ACT08D ..... .20 .178 .15
74ACT08	DIP-14	Quad 2-input AND gate	262351CE SN74ACT08N ..... .39 .313 .222
74ACT10	SOIC-14	Triple 3-input NAND gate	266271CE SN74ACT10D ..... .29 .26 .20
74ACT10	DIP-14	Triple 3-input NAND gate	262369CE SN74ACT10N ..... .22 .20 .16
74ACT14	SOIC-14	Hex inverter with Schmitt trigger input	266301CE SN74ACT14D ..... .22 .18 .16
74ACT14	DIP-14	Hex inverter with Schmitt trigger input	262377CE SN74ACT14N ..... .25 .20 .16
74ACT32	SOIC-14	Quad 2-input OR gate	266378CE SN74ACT32D ..... .22 .20 .16
74ACT32	DIP-14	Quad 2-input OR gate	262465CE SN74ACT32N ..... .36 .302 .227
74ACT74	SOIC-14	Dual D-type pos. edge-triggered flip-flop	266431CE SN74ACT74D ..... .30 .26 .19
74ACT74	DIP-14	Dual D-type pos. edge-triggered flip-flop	262473CE SN74ACT74N ..... .28 .24 .20
74ACT86	SOIC-14	Quad 2-input exclusive OR gate	266458CE SN74ACT86D ..... .31 .29 .20
74ACT86	DIP-14	Quad 2-input exclusive OR gate	262481CE SN74ACT86N ..... .22 .20 .16
74ACT125	SOIC-14	Quad buffer with 3-state outputs	
74ACT125	DIP-14	Quad buffer with 3-state outputs	

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Part No.	Cross Ref.	1	10	100
265877CE	74ACT00M	*.17	\$.14	
211959CE	74ACT00N	.25	.21	.156
265914CE	74ACT02M	.20	.18	.14
211967CE	74ACT02N	.37	.30	.22
265957CE	74ACT04M	.20	.18	.14
211975CE	74ACT04N	.25	.21	.16
266159CE	74ACT08M	*.17	.13	
211983CE	74ACT08N	.36	.29	.206
266263CE	74ACT10M	.26	.23	.19
239046CE	74ACT10N	.20	.17	.13
266298CE	74ACT14M	.20	.18	.14
211991CE	74ACT14N	.21	.18	.13
266360CE	74ACT32M	.20	.18	.14
212003CE	74ACT32N	.33	.28	.21
266423CE	74ACT74M	.27	.23	.176
212011CE	74ACT74N	.25	.21	.16
266440CE	74ACT86M	.28	.27	.19
212020CE	74ACT86N	.20	.17	.128
266466CE	74ACT125M	.86	.73	.59
239003CE	74ACT125N	.32	.27	.20

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Base No.	Package	Description	Part No.	T.I. Product No.	1	10 100
74ACT138	SOIC-16	1 of 8 decoder/demultiplexer	266482CE	CD74ACT138M	.35	.32 .24
74ACT138	DIP-16	1 of 8 decoder/demultiplexer	262490CE	CD74ACT138E	.35	.30 .21
74ACT139	SOIC-16	Dual 1 of 4 decoder/demultiplexer	266503CE	CD74ACT139M	.41	.33 .25
74ACT139	DIP-16	Dual 1 of 4 decoder/demultiplexer	262502CE	CD74ACT139E	.41	.33 .23
74ACT151	SOIC-16	8-input multiplexer				
74ACT151	DIP-16	8-input multiplexer				
74ACT157	SOIC-16	Quad 2-input multiplexer	266538CE	CD74ACT157M	.32	.28 .25
74ACT157	DIP-16	Quad 2-input multiplexer	262529CE	CD74ACT157E	.47	.355 .26
74ACT161	SOIC-16	Synchronous binary counter	266554CE	CD74ACT161M	.69	.63 .51
74ACT161	DIP-16	Synchronous binary counter	262676CE	CD74ACT161E	.43	.35 .29
74ACT163	SOIC-16	Synchronous presettable binary counter	266571CE	CD74ACT163M	.43	.32 .25
74ACT163	DIP-16	Synchronous presettable binary counter	262684CE	CD74ACT163E	.54	.41 .31
74ACT174	SOIC-16	HEX D-type flip-flop with master reset	266634CE	CD74ACT174M	.41	.38 .36
74ACT174	DIP-16	HEX D-type flip-flop with master reset	262692CE	CD74ACT174E	.53	.46 .34
74ACT175	SOIC-16	Quad D-type flip-flop	266685CE	CD74ACT175M	.60	.54 .43
74ACT175	DIP-16	Quad D-type flip-flop	262799CE	CD74ACT175E	.60	.54 .43
74ACT240	SOIC-20	Octal buffer/line driver w/ 3-state outputs	266749CE	CD74ACT240DW	.50	.41 .31
74ACT240	DIP-20	Octal buffer/line driver w/ 3-state outputs	262828CE	CD74ACT240N	.32	.28 .24
74ACT241	SOIC-20	Octal buffer/line driver w/ 3-state outputs	266773CE	SN74ACT241DW	.45	.36 .28
74ACT241	DIP-20	Octal buffer/line driver w/ 3-state outputs	263038CE	SN74ACT241N	.45	.36 .28
74ACT244	SOIC-20	Octal buffer/line driver w/ 3-state outputs	266909CE	SN74ACT244DW	.35	.30 .26
74ACT244	DIP-20	Octal buffer/line driver w/ 3-state outputs	263046CE	SN74ACT244N	.50	.377 .286
74ACT245	SOIC-20	Octal bidirectional trans. w/ 3-state I/O	266925CE	SN74ACT245DW	.44	.36 .28
74ACT245	DIP-20	Octal bidirectional trans. w/ 3-state I/O	263062CE	SN74ACT245N	.41	.37 .35
74ACT251	SOIC-16	8-input multiplexer				
74ACT251	DIP-16	8-input multiplexer				
74ACT257	SOIC-16	Quad 2-input multiplexer w/ 3-st. L. outputs	266968CE	CD74ACT257M	.31	.259 .21
74ACT257	DIP-16	Quad 2-input multiplexer w/ 3-st. L. outputs	263097CE	CD74ACT257E	.40	.31 .27
74ACT273	SOIC-20	Octal D-type flip-flop w/ reset	266984CE	CD74ACT273M	.50	.41 .31
74ACT273	DIP-20	Octal D-type flip-flop w/ reset	263100CE	CD74ACT273E	.41	.36 .28
74ACT373	SOIC-20	Octal transparent latch w/ 3-state outputs	267004CE	SN74ACT373DW	.44	.36 .28
74ACT373	DIP-20	Octal transparent latch w/ 3-state outputs	263177CE	SN74ACT373N	.45	.36 .28
74ACT374	SOIC-20	Octal D-type flip-flop w/ 3-state outputs	267021CE	SN74ACT374DW	.45	.36 .28
74ACT374	DIP-20	Octal D-type flip-flop w/ 3-state outputs	263193CE	SN74ACT374N	.44	.36 .28
74ACT521	SOIC-20	8-bit identity comparator				
74ACT521	DIP-20	8-bit identity comparator				
74ACT533	SOIC-20	Octal transparent latch w/ 3-state H. outputs	267080CE	SN74ACT533DW	.49	.37 .28
74ACT533	DIP-20	Octal transparent latch w/ 3-state H. outputs	263425CE	SN74ACT533N	.57	.52 .39
74ACT541	SOIC-20	Octal buffer/line driver w/ 3-state outputs	267178CE	CD74ACT541M	.43	.38 .30
74ACT541	DIP-20	Octal buffer/line driver w/ 3-state outputs	263441CE	CD74ACT541E	.45	.36 .28
74ACT573	SOIC-20	Octal latch with 3-state outputs	267282CE	SN74ACT573DW	.45	.36 .27
74ACT573	DIP-20	Octal latch with 3-state outputs	263468CE	SN74ACT573	.63	.59 .55
74ACT574	SOIC-20	Octal D-type flip-flop w/ 3-state outputs	267346CE	SN74ACT574DW	.45	.36 .28
74ACT574	DIP-20	Octal D-type flip-flop w/ 3-state outputs	263476CE	SN74ACT574N	.63	.55 .45
74ACT715	SOIC-20	Programmable video sync. generator				
74ACT715	DIP-20	Programmable video sync. generator				

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Part No.	Cross Ref.	1	10	100
266474CE	74ACT138M	.32	.29	.22
212038CE	74ACT138N	.23	.20	.193
266491CE	74ACT139M	.37	.30	.23
239011CE	74ACT139N	.38	.32	.24
266511CE	74ACT151M	.39	.30	.23
239020CE	74ACT151N	.44	.329	.249
266520CE	74ACT157M	.30	.27	.23
239038CE	74ACT157N	.44	.329	.249
266546CE	74ACT161M	.63	.57	.48
239071CE	74ACT161N	.39	.33	.25
266562CE	74ACT163M	.39	.30	.23
239062CE	74ACT163N	.49	.42	.31
266600CE	74ACT174M	.38	.35	.33
239054CE	74ACT174N	.48	.41	.31
266677CE	74ACT175M	.55	.49	.40
239089CE	74ACT175N	.55	.47	.328
266731CE	74ACT240M	.46	.37	.29
212046CE	74ACT240N	.30	.26	.218
266765CE	74ACT241M	.41	.33	.25
239097CE	74ACT241N	.41	.33	.25
266896CE	74ACT244M	.32	.27	.24
212054CE	74ACT244N	.45	.34	.26
266917CE	74ACT245M	.40	.33	.25
212062CE	74ACT245N	.38	.33	.25
266933CE	74ACT251M	.46	.35	.26
239100CE	74ACT251N	.46	.35	.27
266941CE	74ACT257M	.28	.233	.189
239126CE	74ACT257N	.36	.31	.23
266976CE	74ACT273M	.46	.37	.29
212071CE	74ACT273N	.37	.31	.23
266992CE	74ACT373M	.40	.33	.25
212089CE	74ACT373N	.41	.33	.25
267012CE	74ACT374M	.41	.33	.25
212097CE	74ACT374N	.40	.33	.25
267055CE	74ACT521M	.44	.36	.30
235230CE	74ACT521N	.79	.60	.45
267071CE	74ACT533M	.44	.34	.26
235248CE	74ACT533N	.52	.47	.43
267151CE	74ACT541M	.39	.35	.29
235264CE	74ACT541N	.41	.33	.25
267274CE	74ACT573M	.41	.33	.25
235272CE	74ACT573N	.32	.27	.20
267338CE	74ACT574M	.41	.33	.25
235281CE	74ACT574N	.57	.48	.36
267371CE	74ACT715M	9.25	8.35	7.49
235299CE	74ACT715N	8.69	8.24	7.49

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212038CE	74ACT138, DIP	\$0.23	\$0.64	\$0.62	\$0.43	\$0.20	46.5%
212089CE	74ACT373, DIP	\$0.41	\$0.80	\$0.62	\$0.80	\$0.21	33.9%
214228CE	74AHC541, DIP	\$0.33	\$0.56	\$0.49	\$0.56	\$0.16	32.7%
263193CE	TI, SN74ACT374N, DIP	\$0.44	\$0.80	\$0.66	\$0.80	\$0.22	33.3%
262481CE	TI, SN74ACT86N, DIP	\$0.22	\$0.80	\$0.36	\$0.50	\$0.14	38.9%
288366CE	TI, SN74AHC574N, DIP	\$0.39	\$0.56	\$0.49	\$0.56	\$0.10	20.4%
288374CE	TI, SN74AHC574N, DIP	\$0.37	\$0.66	\$0.49	\$0.66	\$0.12	24.5%

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74AHC(T)XXX CMOS Logic Competitive Cross Reference Guide

Family	Package	TI	Jameco	Fairchild	On Semi	ST Micro	Philips	Toshiba	Samsung
AHC(T)	DIP	SN74AHC(T)XXXN	74AHC(T)XXXN	MM74VHC(T)XXXN	—	—	—	—	KS74AHC(T)XXXN
	SOIC	SN74AHC(T)XXXD/DW	74AHC(T)XXXM	MM74VHC(T)XXXM/MM	MC74VHC(T)XXXD	M74VHC(T)XXXM	74AHC(T)XXXD	TC74VHC(T)XXXFN/FW	—

74AHC Series – AHC family offers CMOS inputs with CMOS outputs

AHC(T) = VHC(T)

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Base No.	Package	Description	Texas Instruments – Save 6-20%			
			Part No.	T.I. Product No.	1	10 100
74AHC00	SOIC-14	Quad 2-input positive NAND gate	289641CE	SN74AHC00D	\$.32	\$.27 \$.19
74AHC00	DIP-14	Quad 2-input positive NAND gate	287726CE	SN74AHC00N	.36	.30 .21
74AHC02	SOIC-14	Quad 2-input positive NOR gate	289668CE	SN74AHC02D	.32	.31 .22
74AHC02	DIP-14	Quad 2-input positive NOR gate	287742CE	SN74AHC02N	.36	.30 .21
74AHC04	SOIC-14	Hex inverter	289721CE	SN74AHC04D	.32	.31 .22
74AHC04	DIP-14	Hex inverter	287751CE	SN74AHC04N	.36	.30 .21
74AHC08	SOIC-14	Quad 2-input positive AND gate	289764CE	SN74AHC08D	.40	.32 .22
74AHC08	DIP-14	Quad 2-input positive AND gate	287777CE	SN74AHC08N	.36	.30 .21
74AHC14	SOIC-14	Hex inverter with Schmitt trigger input	289799CE	SN74AHC14D	.29	.25 .18
74AHC14	DIP-14	Hex inverter with Schmitt trigger input	288171CE	SN74AHC14N	.35	.291 .202
74AHC32	SOIC-14	Quad 2-input positive OR gate	289932CE	SN74AHC32D	.39	.319 .221
74AHC32	DIP-14	Quad 2-input positive OR gate	288198CE	SN74AHC32N	.41	.33 .23
74AHC74	SOIC-14	Dual D-type pos. edge-triggered flip-flop	289959CE	SN74AHC74D	.40	.32 .22
74AHC74	DIP-14	Dual D-type pos. edge-triggered flip-flop	288201CE	SN74AHC74N	.30	.29 .21
74AHC86	SOIC-14	Quad 2-input exclusive OR gate	289983CE	SN74AHC86D	.22	.173 .156
74AHC86	DIP-14	Quad 2-input exclusive OR gate	288219CE	SN74AHC86N	.44	.355 .248
74AHC138	SOIC-16	3-line to 8-line decoders/demultiplexers	290036CE	SN74AHC138D	.42	.373 .304
74AHC138	DIP-16	3-line to 8-line decoders/demultiplexers	288286CE	SN74AHC138N	.46	.37 .26
74AHC139	SOIC-16	Dual 2-line to 4-line decoders/demultiplexers	290061CE	SN74AHC139D	.48	.38 .30
74AHC139	DIP-16	Dual 2-line to 4-line decoders/demultiplexers	288294CE	SN74AHC139N	.49	.41 .32
74AHC157	DIP-16	2 to 1 data selector/multiplexer	288382CE	SN74AHC157N	.60	.45 .34
74AHC240	SOIC-20	Octal invert. buffer/driver w/ 3-st. outputs	290108CE	SN74AHC240DW	.50	.38 .29
74AHC240	DIP-20	Octal invert. buffer/driver w/ 3-st. outputs	288315CE	SN74AHC240N	.29	.256 .248
74AHC244	SOIC-20	Octal buffer/driver w/ 3-st. outputs	290175CE	SN74AHC244DW	.41	.33 .25
74AHC244	DIP-20	Octal buffer/driver w/ 3-st. outputs	288323CE	SN74AHC244N	.36	.291 .221
74AHC245	SOIC-20	Octal bus transceiver w/ 3-state outputs	290191CE	SN74AHC245DW	.43	.33 .25
74AHC245	DIP-20	Octal bus transceiver w/ 3-state outputs	288331CE	SN74AHC245N	.42	.292 .216
74AHC373	SOIC-20	Octal transparent D-type latch w/ 3-st. outputs	290212CE	SN74AHC373DW	.43	.33 .25
74AHC373	DIP-20	Octal transparent D-type latch w/ 3-st. outputs	288340CE	SN74AHC373N	.30	.24 .22
74AHC374	SOIC-20	Octal edge-trig. D-type flip-flop w/ 3-st. outputs	290247CE	SN74AHC374DW	.29	.237 .212
74AHC374	DIP-20	Octal edge-trig. D-type flip-flop w/ 3-st. outputs	288358CE	SN74AHC374N	.30	.24 .22
74AHC541	SOIC-20	Octal buffer/driver w/ 3-state NOR gate enabled	290271CE	SN74AHC541DW	.50	.38 .29
74AHC541	DIP-20	Octal buffer/driver w/ 3-state NOR gate enabled	288366CE	SN74AHC541N	.39	.349 .265
74AHC574	SOIC-20	Octal edge-trig. D-type F/F w/ 3-st. out flow thru	290298CE	SN74AHC574DW	.29	.237 .213
74AHC574	DIP-20	Octal edge-trig. D-type F/F w/ 3-st. out flow thru	288374CE	SN74AHC574N	.37	.30 .23

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Part No.	Cross Ref.	1	10	100
289650CE	74AHC00M	\$.30	\$.253	\$.176
214092CE	74AHC00N	.32	.27	.19
289676CE	74AHC02M	.30	.291	.202
214105CE	74AHC02N	.32	.27	.19
289748CE	74AHC04M	.30	.291	.202
214113CE	74AHC04N	.32	.27	.19
289772CE	74AHC08M	.36	.291	.202
214121CE	74AHC08N	.32	.27	.19
289801CE	74AHC14M	.26	.224	.159
214130CE	74AHC14N	.32	.29	.19
289941CE	74AHC32M	.35	.291	.202
214148CE	74AHC32N	.36	.29	.20
289967CE	74AHC74M	.36	.291	.202
214156CE	74AHC74N	.26	.22	.165
289991CE	74AHC86M	.20	.158	.143
214164CE	74AHC86N	.32	.27	.19
290044CE	74AHC138M	.39	.34	.277
243213CE	74AHC138N	.45	.38	.28
290079CE	74AHC139M	.44	.332	.277
243221CE	74AHC139N	.45	.38	.28
243230CE	74AHC157N	.53	.40	.31
290116CE	74AHC240M	.46	.349	.269
214172CE	74AHC240N	.31	.28	.26
290183CE	74AHC244M	.37	.299	.227
214181CE	74AHC244N	.33	.27	.20
290204CE	74AHC245M	.39	.299	.227
214199CE	74AHC245N	.39	.299	.227
290239CE	74AHC373M	.39	.299	.227
214201CE	74AHC373N	.26	.22	.165
290255CE	74AHC374M	.26	.216	.193
214210CE	74AHC374N	.26	.24	.227
290280CE	74AHC541M	.46	.349	.265
214228CE	74AHC541N	.33	.27	.20
290319CE	74AHC574M	.26	.216	.203
214236CE	74AHC574N	.39	.299	.227

74AHCT Series – AHCT family offers TTL inputs with CMOS outputs

AHC(T) = VHC(T)



SOIC



Base No.	Package	Description	Texas Instruments – Save 6-20%			
			Part No.	T.I. Product No.	1	10 100
74AHCT00	SOIC-14	Quad 2-input positive NAND gate	289051CE	SN74AHCT00D	\$.24	\$.20 \$.16
74AHCT00	DIP-14	Quad 2-input positive NAND gate	288454CE	SN74AHCT00N	.23	.15 .13
74AHCT02	DIP-14	Quad 2-input positive NOR gate	288489CE	SN74AHCT02N	.36	.30 .21
74AHCT04	SOIC-14	Hex inverter	289086CE	SN74AHCT04D	.21	.16 .14
74AHCT04	DIP-14	Hex inverter	288497CE	SN74AHCT04N	.34	.30 .21
74AHCT08	SOIC-14	Quad 2-input positive AND gate	289140CE	SN74AHCT08D	.21	.16 .15
74AHCT08	DIP-14	Quad 2-input positive AND gate	288569CE	SN74AHCT08N	.32	.291 .202
74AHCT14	SOIC-14	Hex inverter with Schmitt trigger input	289166CE	SN74AHCT14D	*	.146 .129
74AHCT14	DIP-14	Hex inverter with Schmitt trigger input	288577CE	SN74AHCT14N	.35	.291 .202
74AHCT74	SOIC-14	Dual D-type pos. edge-triggered flip-flop	289262CE	SN74AHCT74D	.29	.25 .18
74AHCT74	DIP-14	Dual D-type pos. edge-triggered flip-flop	288649CE	SN74AHCT74N	.35	.291 .202
74AHCT86	SOIC-14	Quad 2-input exclusive OR gate	289289CE	SN74AHCT86D	.23	.191 .166
74AHCT86	DIP-14	Quad 2-input exclusive OR gate	288657CE	SN74AHCT86N	.23	.19 .17

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* Prepackaged: order in increments of 10 or 100

Part No.	Cross Ref.	1	10	100
289060CE	74AHCT00M	\$.22	\$.183	\$.143
43844CE	74AHCT00N	.21	.15	.10
43852CE	74AHCT02N	.32	.27	.20
289094CE	74AHCT04M	*	.149	.126
43861CE	74AHCT04N	.30	.266	.185
289158CE	74AHCT08M	*	.149	.134
63431CE	74AHCT08N	.30	.26	.19
289174CE	74AHCT14M	*	.133	.118
63458CE	74AHCT14N	.32	.27	.19
289254CE	74AHCT74M	.26	.224	.159
43924CE	74AHCT74N	.32	.27	.20
289297CE	74AHCT86M	.21	.174	.151
43932CE	74AHCT86N	.21	.18	.13

† Note: TI now owns GE, Harris & RCA logic; Fairchild now owns National Semi logic; Philips now owns Signetics; and On Semi is also known as Motorola.

Thousands of new ICs are in the pipeline for addition and not shown below. Call us to see if you can save 10-30%.

74AHCT Series (Continued) – AHCT family offers TTL inputs with CMOS outputs AHC(T) = VHC(T)**Quantity SAVE**

SOIC

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Base No.	Package	Description	Part No.	T.I. Product No.	1	10	100
74AHCT138	SOIC-16	3-line to 8-line decoders/demultiplexers	289318CE	SN74AHCT138D	\$.50	\$.40	\$.30
74AHCT138	DIP-16	3-line to 8-line decoders/demultiplexers	288673CE	SN74AHCT138N .....	.40	.33	.25
74AHCT139	SOIC-16	Dual 2-line to 4-line decoders/demultiplexers	289342CE	SN74AHCT139D .....	.48	.38	.30
74AHCT139	DIP-16	Dual 2-line to 4-line decoders/demultiplexers	288711CE	SN74AHCT139N .....	.29	.28	.20
74AHCT240	SOIC-20	Octal invert. buffer/driver w/ 3-st. outputs	289385CE	SN74AHCT240DW .....	.45	.38	.29
74AHCT240	DIP-20	Octal invert. buffer/driver w/ 3-st. outputs	288737CE	SN74AHCT240N .....	.29	.259	.248
74AHCT244	SOIC-20	Octal buffer/driver w/ 3-st. outputs	289449CE	SN74AHCT244DW .....	.43	.33	.25
74AHCT244	DIP-20	Octal buffer/driver w/ 3-st. outputs	288868CE	SN74AHCT244N .....	.29	.24	.21
74AHCT245	SOIC-20	Octal bus transceiver w/ 3-state outputs	289490CE	SN74AHCT245DW .....	.43	.33	.25
74AHCT245	DIP-20	Octal bus transceiver w/ 3-state outputs	288884CE	SN74AHCT245N .....	.43	.328	.248
74AHCT373	SOIC-20	Octal transparent D-type latch w/ 3-st. outputs	289502CE	SN74AHCT373DW .....	.43	.33	.25
74AHCT373	DIP-20	Octal transparent D-type latch w/ 3-st. outputs	288892CE	SN74AHCT373N .....	.29	.237	.214
74AHCT374	SOIC-20	Octal edge-trig. D-type flip-flop w/ 3-st. outputs	289561CE	SN74AHCT374DW .....	.29	.237	.212
74AHCT374	DIP-20	Octal edge-trig. D-type flip-flop w/ 3-st. outputs	288913CE	SN74AHCT374N .....	.29	.237	.212
74AHCT574	SOIC-20	Octal edge-trig. D-type F/F w/ 3-st. out flow thru	289617CE	SN74AHCT574DW .....	.43	.33	.25
74AHCT574	DIP-20	Octal edge-trig. D-type F/F w/ 3-st. out flow thru	288964CE	SN74AHCT574N43	.33	.25

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Part No.	Cross Ref.	1	10	100
289326CE	74AHCT138M	\$.45	\$.365	\$.277
243248CE	74AHCT138N36	.31	.23
289351CE	74AHCT139M .....	.44	.35	.277
243256CE	74AHCT139N .....	.26	.252	.185
289414CE	74AHCT240M .....	.41	.349	.269
214244CE	74AHCT240N .....	.26	.22	.165
289457CE	74AHCT244M .....	.39	.299	.227
63466CE	74AHCT244N .....	.26	.22	.17
289481CE	74AHCT245M .....	.39	.299	.227
43887CE	74AHCT245N .....	.39	.299	.227
289511CE	74AHCT373M .....	.39	.299	.227
43908CE	74AHCT373N .....	.26	.22	.193
289570CE	74AHCT374M .....	.26	.216	.193
43916CE	74AHCT374N .....	.26	.22	.165
289633CE	74AHCT574M .....	.39	.30	.227
214252CE	74AHCT574N .....	.39	.299	.227

74ABTXXX CMOS Logic Competitive Cross Reference Guide

Family	Package	TI	Jameco	Fairchild	Philips
ABT	DIP	SN74ABTXXXN	74ABTXXXN	74ABTXXXPC	74ABTXXXN
	SOIC	SN74ABTXXXD/DW	74ABTXXXD	74ABTXXXSC	74ABTXXXD

74ABT Series – BiCMOS Technology for High Performance Bus Systems

SOIC

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Base No.	Package	Description	Part No.	T.I. Product No.	1	10	100
74ABT125	SOIC-14	Quad buffer w/ 3-state outputs	290811CE	SN74ABT125D	\$.51	\$.41	\$.31
74ABT125	DIP-14	Quad bus buffer gate w/ 3-state outputs	290482CE	SN74ABT125N .....	.41	.34	.29
74ABT240	SOIC-20	Octal invert. buffer/driver w/ 3-state outputs	290909CE	SN74ABT240ADW .....	.82	.62	.48
74ABT240	DIP-20	Octal invert. buffer/driver w/ 3-state outputs	290503CE	SN74ABT240AN .....	.72	.62	.47
74ABT241	SOIC-20	Octal buffer/driver w/ 3-state outputs	290941CE	SN74ABT241ADW .....	.82	.62	.48
74ABT244	SOIC-20	Octal buffer/driver w/ 3-state outputs	291160CE	SN74ABT244ADW .....	.67	.51	.39
74ABT244	DIP-20	Octal buffer/driver w/ 3-state outputs	290511CE	SN74ABT244AN .....	.67	.51	.39
74ABT245	SOIC-20	Octal bus transceiver w/ 3-state outputs	291186CE	SN74ABT245BDW .....	.67	.51	.39
74ABT245	DIP-20	Octal bus transceiver w/ 3-state outputs	290520CE	SN74ABT245BN .....	.67	.51	.39
74ABT373	SOIC-20	Octal transparent D-type latch w/ 3-st. outputs	291223CE	SN74ABT373DW .....	.65	.491	.373
74ABT373	DIP-20	Octal transparent D-type latch w/ 3-st. outputs	290546CE	SN74ABT373N .....	.65	.491	.377
74ABT374	SOIC-20	Octal D-type flip-flop w/ 3-state outputs	291266CE	SN74ABT374ADW .....	.67	.51	.39
74ABT374	DIP-20	Octal D-type flip-flop w/ 3-state outputs	290589CE	SN74ABT374AN .....	.65	.491	.373
74ABT377	SOIC-20	Octal edge-triggered D-type flip-flop w/ clock enable	291354CE	SN74ABT377ADW .....	.74	.56	.43
74ABT534	SOIC-20	Octal edge-triggered D-type flip-flop w/ 3-st. outputs	291371CE	SN74ABT534ADW .....	.79	.66	.59
74ABT541	SOIC-20	Octal buffer/driver w/ 3-state NOR gate enabled	291418CE	SN74ABT541BDW .....	.66	.47	.42
74ABT541	DIP-20	Octal buffer/driver w/ 3-state NOR gate enabled	290685CE	SN74ABT541BN .....	.74	.56	.43
74ABT573	SOIC-20	Octal transparent D-type latch w/ 3-st. outputs	291442CE	SN74ABT573ADW .....	.65	.49	.38
74ABT573	DIP-20	Octal transparent D-type latch w/ 3-st. outputs	290693CE	SN74ABT573AN .....	.67	.51	.39
74ABT574	SOIC-20	Octal D-type flip-flop w/ 3-state outputs	291557CE	SN74ABT574ADW .....	.67	.51	.39
74ABT574	DIP-20	Octal D-type flip-flop w/ 3-state outputs	290706CE	SN74ABT574AN .....	.32	.309	.304
74ABT646	SOIC-20	Octal bus transceiver w/ 3-state outputs	291602CE	SN74ABT646ADW	1.25	1.06	.86
74ABT646	DIP-24	Octal bus transceiver w/ 3-state outputs	290714CE	SN74ABT646ANT	1.29	1.09	.87
74ABT652	SOIC-24	Octal registered transceivers w/ 3-st. outputs	291741CE	SN74ABT652ADW	1.35	1.12	.89
74ABT2240	SOIC-20	Octal buffer/driver w/ 3-state outputs	291750CE	SN74ABT2240ADW .....	.82	.62	.47
74ABT2244	SOIC-20	Octal buffer/driver w/ 30 ohms series resistors, 3-st.	291776CE	SN74ABT2244ADW .....	.65	.491	.377
74ABT2244	DIP-20	Octal buffer/driver w/ 30 ohms series resistors, 3-st.	290722CE	SN74ABT2244AN .....	.65	.491	.377
74ABT5402	SOIC-28	12-bit line/memory driver w/ 3-state outputs	291397CE	SN74ABT5402ADW	3.09	2.69	2.53

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Part No.	Cross Ref.	1	10	100
290837CE	74ABT125D	\$.45	\$.365	\$.277
290351CE	74ABT125N36	.291	.27
290917CE	74ABT240AD .....	.72	.55	.42
290360CE	74ABT240AN .....	.63	.55	.42
290950CE	74ABT241AD .....	.72	.548	.42
291178CE	74ABT244AD .....	.59	.45	.34
290378CE	74ABT244AN .....	.59	.448	.344
291194CE	74ABT245BD .....	.59	.448	.344
290386CE	74ABT245BN .....	.59	.448	.344
291240CE	74ABT373D .....	.59	.448	.344
290415CE	74ABT373N .....	.59	.448	.34
291274CE	74ABT374AD .....	.59	.448	.344
290423CE	74ABT374AN .....	.59	.448	.344
291362CE	74ABT377AD .....	.66	.50	.378
291389CE	74ABT534AD .....	.73	.65	.59
291426CE	74ABT541BD .....	.58	.398	.37
290440CE	74ABT541BN .....	.66	.498	.378
291469CE	74ABT573AD .....	.59	.448	.34
290431CE	74ABT573AN .....	.59	.448	.344
291565CE	74ABT574AD .....	.59	.45	.34
290458CE	74ABT574AN .....	.35	.309	.304
291637CE	74ABT646AD	1.15	.97	.78
290466CE	74ABT646AN	1.15	.97	.78
291733CE	74ABT652AD	1.15	.99	.80
291768CE	74ABT2240AD .....	.72	.55	.416
291784CE	74ABT2244AD .....	.59	.448	.34
290343CE	74ABT2244AN .....	.59	.448	.344
291400CE	74ABT5402AD	2.79	2.69	2.53

[†] Note: TI now owns GE, Harris & RCA logic; Fairchild now owns National Semi logic; Philips now owns Signetics; and On Semi is also known as Motorola.

Thousands of new ICs are in the pipeline for addition and not shown below. Call us to see if you can save 10-30%.

74HC(T)XXX CMOS Logic Competitive Cross Reference Guide

Family	Package	TI	Jameco	Fairchild	On Semi	ST Micro	Philips	Toshiba
HC(T)	DIP	SN74HC(T)XXXN	74HC(T)XXXN	MM74HC(T)XXXN	MC74HC(T)XXXN	M74HC(T)XXXBIR	74HC(T)XXXN	TC74HC(T)XXXAP
	DIP	CD74HC(T)XXE	74HC(T)XXXN	MM74HC(T)XXXN	MC74HC(T)XXXN	M74HC(T)XXXBIR	74HC(T)XXXN	TC74HC(T)XXXAP
	SOIC	SN74HC(T)XXXD/DW	74HC(T)XXXM/WM	MM74HC(T)XXXM/WM	MC74HC(T)XXXD	M74HC(T)XXXMIR	74HC(T)XXXD	TC74HC(T)XXXAF/AFW
	SOIC	CD74HC(T)XXXM	74HC(T)XXXM/WM	MM74HC(T)XXXM/WM	MC74HC(T)XXXD	M74HC(T)XXXMIR	74HC(T)XXXD	TC74HC(T)XXXAF/AFW
	TSSOP	SN74HC(T)XXXPW	74HC(T)XXXT	MM74HC(T)XXXMTC	MC74HC(T)XXXDT	M74HC(T)XXXT	74HC(T)XXXPW	—

74HC Series – HC family offers CMOS inputs with CMOS outputs

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Base No.	Package	Description	Texas Instruments – Save 6-20%			
			Part No.	T.I. Product No.	1	10 100
74HC00	SOIC-14	Quad 2-input NAND gates	251889CE	SN74HC00D	* .137	.12
74HC00	DIP-14	Quad 2-input NAND gates	250966CE	SN74HC00N	.24	.151
74HC00	TSSOP-14	Quad 2-input NAND gates	379911CE	SN74HC00PW	* .137	.12
74HC02	SOIC-14	Quad 2-input NOR gates	251926CE	SN74HC02D	* .137	.102
74HC02	DIP-14	Quad 2-input NOR gates	250974CE	SN74HC02N	.26	.156
74HC02	TSSOP-14	Quad 2-input NOR gates				
74HC04	SOIC-14	Hex inverter	251934CE	SN74HC04D	* .137	.103
74HC04	DIP-14	Hex inverter	250982CE	SN74HC04N	.26	.193
74HC04	TSSOP-14	Hex Inverter	380058CE	SN74HC04PW	* .137	.12
74HC08	SOIC-14	Quad 2-input AND gates	251942CE	SN74HC08D	* .135	.09
74HC08	DIP-14	Quad 2-input AND gates	251002CE	SN74HC08N	* .173	.13
74HC08	TSSOP-14	Quad 2-input AND gates	380074CE	SN74HC08PW	* .137	.12
74HC10	SOIC-14	Triple 3-input NAND gates	251951CE	SN74HC10D	* .137	.103
74HC10	DIP-14	Triple 3-input NAND gates	251011CE	SN74HC10N	.37	.202
74HC11	DIP-14	Triple 3-input AND gates	251037CE	SN74HC11N	.20	.13
74HC14	SOIC-14	Hex Schmitt trigger inverter	251969CE	SN74HC14D	* .155	.116
74HC14	DIP-14	Hex Schmitt trigger inverter	251045CE	SN74HC14N	.24	.18
74HC14	TSSOP-14	Hex Schmitt trigger inverter	380269CE	SN74HC14PW	.39	.221
74HC30	SOIC-14	8-input NAND gate	251985CE	CD74HC30M	.31	.195
74HC30	DIP-14	8-input NAND gate	251070CE	CD74HC30E	.31	.20
74HC32	SOIC-14	Quad 2-input OR gates	251993CE	SN74HC32D	* .137	.102
74HC32	DIP-14	Quad 2-input OR gates	251088CE	SN74HC32N	.20	.128
74HC32	TSSOP-14	Quad 2-input OR gates	380648CE	SN74HC32PW	* .137	.12
74HC74	SOIC-14	Dual D-type pos. edge trig. flip-flops w/clear and preset	252030CE	SN74HC74D	* .155	.138
74HC74	DIP-14	Dual D-type pos. edge trig. flip-flops w/clear and preset	251096CE	SN74HC74N	.30	.242
74HC74	TSSOP-14	Dual D-type pos. edge trig. flip-flops w/clear and preset	381106CE	SN74HC74PW	* .155	.138
74HC85	SOIC-16	4-bit magnitude comparator	252048CE	CD74HC85M	.59	.49
74HC85	DIP-16	4-bit magnitude comparator	251109CE	CD74HC85E	.54	.34
74HC86	SOIC-14	Quad 2-input Exclusive OR gates	252056CE	SN74HC86D	* .126	.095
74HC86	DIP-14	Quad 2-input Exclusive OR gates	251133CE	SN74HC86N	.25	.182
74HC86	TSSOP-14	Quad 2-input Exclusive OR gates	381122CE	SN74HC86PW	* .155	.138
74HC123	SOIC-16	Dual retrigger. monostable multivibrator w/ reset	252064CE	CD74HC123M	.43	.248
74HC123	DIP-16	Dual retrigger. monostable multivibrator w/ reset	251184CE	CD74HC123E	.32	.20
74HC123	TSSOP-16	Dual retrigger. monostable multivibrator w/ reset				
74HC125	SOIC-14	Quad bus buffer w/ 3-state outputs	252072CE	SN74HC125D	.23	.166
74HC125	DIP-14	Quad bus buffer w/ 3-state outputs	251192CE	SN74HC125N	.31	.20
74HC125	TSSOP-14	Quad bus buffer w/ 3-state outputs				
74HC132	SOIC-14	Quad pos. NAND gate w/ Schmitt trigger input	252081CE	SN74HC132D	.26	.193
74HC132	DIP-14	Quad pos. NAND gate w/ Schmitt trigger input	251205CE	SN74HC132N	.31	.20
74HC132	TSSOP-14	Quad pos. NAND gate w/ Schmitt trigger input	380146CE	ST74HC132PW	.32	.248
74HC138	SOIC-16	3-to-8 decoder/demultiplexer	252099CE	SN74HC138D	.26	.165
74HC138	DIP-16	3-to-8 decoder/demultiplexer	251213CE	SN74HC138N	.33	.29
74HC138	TSSOP-16	3-to-8 decoder/demultiplexer				
74HC139	SOIC-16	2 to 4 decoder/demultiplexer	252101CE	SN74HC139D	.40	.34
74HC139	DIP-16	2 to 4 decoder/demultiplexer	251221CE	SN74HC139N	.35	.30
74HC154	SOIC-24	4-to-16 line decoder	252110CE	CD74HC154M	.41	.35
74HC154	DIP-24	4-to-16 line decoder (.6"W)	251230CE	CD74HC154E	.69	.57
74HC154	DIP-24	4-to-16 line decoder (.3"W)	251248CE	CD74HC154EN	.46	.367
74HC154	TSSOP-24	4-to-16 line decoder				
74HC157	SOIC-16	Quad 2-to-1 line data selector/multiplexer	252136CE	SN74HC157D	.23	.183
74HC157	DIP-16	Quad 2-to-1 line data selector/multiplexer	251299CE	SN74HC157N	.28	.175
74HC157	TSSOP-16	Quad 2-to-1 line data selector/multiplexer	380306CE	SN74HC157PW	.26	.193

† Note: TI now owns GE, Harris & RCA logic; Fairchild now owns National Semi logic; Philips now owns Signetics; and On Semi is also known as Motorola.

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* Prepackaged: order in increments of 10 or 100

Part No.	Cross Ref.	1	10	100
197106CE	74HC00M	* .125	.094	
45161CE	74HC00N	.22	.19	.14
380015CE	74HC00T	* .125	.109	
197114CE	74HC02M	* .125	.094	
45188CE	74HC02N	.24	.158	.126
380031CE	74HC02T	* .125	.109	
197122CE	74HC04M	* .125	.094	
45209CE	74HC04N	.24	.208	.176
380066CE	74HC04T	* .125	.109	
197131CE	74HC08M	* .125	.094	
45225CE	74HC08N	* .158	.12	
380082CE	74HC08T	* .125	.109	
243272CE	74HC10M	* .125	.094	
45233CE	74HC10N	.34	.274	.185
45268CE	74HC11N	* .158	.119	
197149CE	74HC14M	* .141	.106	
45364CE	74HC14N	.22	.19	.17
380277CE	74HC14T	.36	.289	.203
243281CE	74HC30M	.28	.234	.178
45786CE	74HC30N	.44	.30	.22
197157CE	74HC32M	* .125	.094	
45794CE	74HC32N	* .158	.119	
380656CE	74HC32T	* .125	.109	
197165CE	74HC74M	* .141	.106	
46130CE	74HC74N	.27	.25	.22
381114CE	74HC74T	* .141	.126	
243299CE	74HC85M	.43	.37	.27
46172CE	74HC85N	.49	.42	.31
243301CE	74HC86M	* .108	.081	
46181CE	74HC86N	.23	.166	.143
381131CE	74HC86T	* .141	.126	
243310CE	74HC123M	.39	.299	.227
45292CE	74HC123N	.30	.243	.18
380103CE	74HC123T	.34	.291	.227
243328CE	74HC125M	.21	.19	.16
45305CE	74HC125N	.28	.24	.18
380120CE	74HC125T	.21	.22	.165
243731CE	74HC132M	.26	.22	.165
45321CE	74HC132N	.28	.234	.18
380197CE	74HC132T	.30	.249	.227
197173CE	74HC138M	.24	.20	.153
45330CE	74HC138N	.30	.27	.18
380251CE	74HC138T	.24	.199	.176
243740CE	74HC139M	.36	.31	.23
45356CE	74HC139N	.32	.27	.20
243758CE	74HC154WM	.37	.30	.23
111739CE	74HC154WN	.64	.58	.53
45401CE	74HC154N	.43	.38	.34
380293CE	74HC154T	.20	.159	.121
243766CE	74HC157M	.21	.166	.125
45428CE	74HC157N	.25	.18	.158
380314CE	74HC157T	.24	.199	.176

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74HC Series (Continued) – HC family offers CMOS inputs with CMOS outputs**Quantity SAVE**

DIP



SOIC



TSSOP

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Base No.	Package	Description
74HC161	SOIC-16	4-bit synchronous binary counter
74HC161	DIP-16	4-bit synchronous binary counter
74HC163	DIP-16	4-bit synchronous presettable binary counter
74HC164	SOIC-14	8-bit parallel out serial shift register
74HC164	DIP-14	8-bit parallel out serial shift register
74HC165	SOIC-16	8-bit parallel load shift register
74HC165	DIP-16	8-bit parallel load shift register
74HC165	TSSOP-16	8-bit parallel load shift register
74HC174	SOIC-16	Hex-D-type flip-flop with clear
74HC174	DIP-16	Hex-D-type flip-flop with clear
74HC174	TSSOP-16	Hex-D-type flip-flop with clear
74HC192	DIP-16	Presettable synchronous 4-bit up/down counter
74HC193	SOIC-16	4-bit synch up/down counter (dual clock w/ clear)
74HC193	DIP-16	4-bit synch up/down counter (dual clock w/ clear)
74HC221	SOIC-16	Dual monostable multivibrator w/reset
74HC221	DIP-16	Dual monostable multivibrator w/reset
74HC240	SOIC-20	Octal invert. buffer/line driver w/ 3-st. output
74HC240	DIP-20	Octal invert. buffer/line driver w/ 3-st. output
74HC240	TSSOP-20	Octal invert. buffer/line driver w/ 3-st. output
74HC244	SOIC-20	Octal buffer and line driver w/ 3-state output
74HC244	DIP-20	Octal buffer and line driver w/ 3-state output
74HC244	TSSOP-20	Octal buffer and line driver w/ 3-state output
74HC245	SOIC-20	Octal bus transceiver w/ 3-state output
74HC245	DIP-20	Octal bus transceiver w/ 3-state output
74HC245	TSSOP-20	Octal bus transceiver w/ 3-state output
74HC273	SOIC-20	Octal D-type flip-flops with clear
74HC273	DIP-20	Octal D-type flip-flops with clear
74HC273	TSSOP-20	Octal D-type flip-flops with clear
74HC373	SOIC-20	Octal D-type transparent latches w/ 3-state out. H.O.
74HC373	DIP-20	Octal D-type transparent latches w/ 3-state out. H.O.
74HC373	TSSOP-20	Octal D-type transparent latches w/ 3-state out. H.O.
74HC374	SOIC-20	Octal edge trig D-type flip-flops w/ 3-state outputs
74HC374	DIP-20	Octal edge trig D-type flip-flops w/ 3-state outputs
74HC374	TSSOP-20	Octal edge trig D-type flip-flops w/ 3-state outputs
74HC393	SOIC-14	Dual 4-bit binary counter
74HC393	DIP-14	Dual 4-bit binary counter
74HC540	SOIC-20	Octal buffer and line driver w/ 3-state output
74HC540	DIP-20	Octal buffer and line driver w/ 3-state output
74HC540	TSSOP-20	Octal buffer and line driver w/ 3-state output
74HC541	SOIC-20	Octal buffer/line driver w/ 3-st. NOR gate enabled
74HC541	DIP-20	Octal buffer/line driver w/ 3-st. NOR gate enabled
74HC541	TSSOP-20	Octal buffer/line driver w/ 3-st. NOR gate enabled
74HC573	SOIC-20	Octal transparent D-type latches w/ 3-st. outputs
74HC573	DIP-20	Octal transparent D-type latches w/ 3-st. outputs
74HC573	TSSOP-20	Octal transparent D-type latches w/ 3-st. outputs
74HC574	SOIC-20	Octal edge trig D-type F/F w/ 3-st. out flow thru
74HC574	DIP-20	Octal edge trig D-type F/F w/ 3-st. out flow thru
74HC574	TSSOP-20	Octal edge trig D-type F/F w/ 3-st. out flow thru
74HC590	DIP-16	8-bit binary counter w/ output reg. tri-state
74HC595	SOIC-16	8-bit shift registers w/ 3-st. output registers
74HC595	DIP-16	8-bit shift registers w/ 3-st. output registers
74HC595	TSSOP-16	8-bit shift registers w/ 3-st. output registers
74HC688	SOIC-20	8-bit identity comparators
74HC688	DIP-20	8-bit identity comparators
74HC688	TSSOP-20	8-bit identity comparators
74HC4017	DIP-16	Decade ctr/div with 10 decoded outputs
74HC4020	SOIC-16	14-bit asynchronous binary counter
74HC4020	DIP-16	14-bit asynchronous binary counter
74HC4040	SOIC-16	12-bit asynchronous binary counter
74HC4040	DIP-16	12-bit asynchronous binary counter
74HC4040	TSSOP-16	12-bit asynchronous binary counter

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Part No.	T.I. Product No.	1	10	100
252144CE	SN74HC161D	.27	\$.182	\$.156
251301CE	SN74HC161N	.29	.25	.18
251310CE	SN74HC163N	.32	.282	.258
252152CE	SN74HC164D	.25	.21	.16
251328CE	SN74HC164N	.41	.33	.25
252161CE	SN74HC165D	.32	.27	.20
251336CE	SN74HC165N	.35	.30	.22
380381CE	SN74HC165PW	.32	.273	.239
252179CE	SN74HC174D	.25	.21	.16
251352CE	SN74HC174N	.28	.24	.18
380437CE	SN74HC174PW	.32	.273	.239
251395CE	CD74HC192E	1.75	1.57	1.39
252187CE	SN74HC193D	.43	.328	.248
251387CE	SN74HC193N	.32	.291	.184
252259CE	CD74HC221M	.52	.44	.33
251408CE	CD74HC221E	.58	.437	.331
252267CE	SN74HC240DW	.28	.24	.18
251416CE	SN74HC240N	.32	.228	.171
380461CE	SN74HC240PW	.28	.237	.202
252275CE	SN74HC244DW	.24	.219	.157
251424CE	SN74HC244N	.49	.42	.31
380525CE	SN74HC244PW	.28	.237	.202
252291CE	SN74HC245DW	.28	.24	.18
251432CE	SN74HC245N	.49	.41	.31
380568CE	SN74HC245PW	.28	.237	.202
252304CE	SN74HC273DW	.28	.24	.18
251459CE	SN74HC273N	.35	.30	.22
380613CE	SN74HC273PW	.28	.237	.202
252312CE	SN74HC373DW	.28	.24	.18
251475CE	SN74HC373N	.49	.42	.38
380664CE	SN74HC373PW	.28	.237	.202
252321CE	SN74HC374DW	.28	.24	.18
251483CE	SN74HC374N	.53	.42	.31
380736CE	SN74HC374PW	.28	.237	.202
252339CE	SN74HC393D	.28	.24	.18
251504CE	SN74HC393N	.32	.29	.26
252347CE	SN74HC540DW	.28	.24	.18
251512CE	SN74HC540N	.34	.291	.258
380980CE	SN74HC540PW	.29	.246	.221
252355CE	SN74HC541DW	.29	.25	.18
251521CE	SN74HC541N	.41	.35	.26
381000CE	SN74HC541PW	.50	.382	.29
252363CE	SN74HC573ADW	.29	.25	.18
251547CE	SN74HC573AN	.41	.346	.304
381026CE	SN74HC573APW	.29	.246	.221
252371CE	SN74HC574DW	.28	.237	.156
251555CE	SN74HC574N	.41	.35	.26
381042CE	SN74HC574PW	.29	.246	.221
251635CE	SN74HC590AN	.41	.346	.304
252523CE	SN74HC595D	.25	.237	.193
251643CE	SN74HC595N	.67	.48	.42
252531CE	SN74HC688DW	.42	.36	.27
251651CE	SN74HC688N	.49	.42	.31
251660CE	CD74HC4017E	.54	.49	.469
252540CE	SN74HC4020D	.43	.25	.188
251678CE	CD74HC4020E	.29	.20	.184
252558CE	SN74HC4040D	.27	.23	.17
251686CE	SN74HC4040N	.33	.26	.22
380752CE	SN74HC4040PW	.39	.328	.248

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Part No.	Cross Ref.	1	10	100
243774CE	74HC161M	\$.25	\$.162	\$.122
45452CE	74HC161N	.26	.22	.165
45479CE	74HC163N	.28	.24	.18
197181CE	74HC164M	.23	.20	.15
45487CE	74HC164N	.38	.30	.23
197190CE	74HC165M	.30	.26	.19
45495CE	74HC165N	.32	.27	.20
380429CE	74HC165T	.30	.249	.218
243782CE	74HC174M	.23	.174	.151
45508CE	74HC174N	.25	.21	.16
380453CE	74HC174T	.30	.249	.218
45541CE	74HC192N	1.59	1.45	1.29
243791CE	74HC193M	.39	.299	.227
45559CE	74HC193N	.30	.266	.168
243803CE	74HC221AM	.43	.37	.27
45604CE	74HC221M	.53	.398	.301
243811CE	74HC240WM	.25	.21	.16
45612CE	74HC240N	.29	.205	.154
380488CE	74HC240T	.25	.216	.185
197202CE	74HC244M	.22	.199	.143
45655CE	74HC244N	.45	.39	.35
380509CE	74HC244T	.25	.216	.185
197211CE	74HC245M	.25	.21	.16
45671CE	74HC245N	.45	.38	.29
380592CE	74HC245T	.25	.216	.185
243820CE	74HC273WM	.25	.21	.16
45743CE	74HC273N	.32	.27	.20
380630CE	74HC273T	.25	.216	.185
197229CE	74HC373M	.25	.21	.16
45831CE	74HC373N	.45	.39	.35
380699CE	74HC373T	.25	.216	.185
197237CE	74HC374M	.25	.191	.17
45858CE	74HC374N	.49	.39	.29
380744CE	74HC374T	.25	.216	.185
243838CE	74HC393M	.25	.21	.16
45874CE	74HC393N	.29	.25	.18
243846CE	74HC540WM	.26	.22	.165
109760CE	74HC540N	.37	.31	.232
380998CE	74HC540T	.26	.224	.202
243854CE	74HC541WM	.26	.22	.17
46050CE	74HC541N	.37	.31	.24
381018CE	74HC541T	.46	.349	.265
197245CE	74HC573M	.26	.22	.17
46076CE	74HC573N	.37	.31	.233
381034CE	74HC573T	.26	.224	.202
197253CE	74HC574M	.25	.216	.143
46084CE	74HC574N	.37	.31	.233
381051CE	74HC574T	.26	.224	.202
88090CE	74HC590N	.38	.32	.24
245075CE	74HC595M	.23	.216	.176
46105CE	74HC595N	.62	.44	.39
381077CE	74HC595T	.25	.216	.185
245083CE	74HC688WM	.38	.32	.24
46113CE	74HC688N	.44	.37	.28
381093CE	74HC688T	.39	.324	.286
45891CE	74HC4017N	.50	.46	.428
245091CE	74HC4020M	.39	.21	.16
45903CE	74HC4020N	.26	.183	.168
245104CE	74HC4040M	.25	.21	.16
45920CE	74HC4040N	.30	.24	.21
380787CE	74HC4040T	.35	.299	.227

† Note: TI now owns GE, Harris & RCA logic; Fairchild now owns National Semi logic; Philips now owns Signetics; and On Semi is also known as Motorola.

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74HC(T)XXX CMOS Logic Competitive Cross Reference Guide

Family	Package	TI	Jameco	Fairchild	On Semi	ST Micro	Philips	Toshiba
HC(T)	DIP	SN74HC(T)XXXN	74HC(T)XXXN	MM74HC(T)XXXN	MC74HC(T)XXXN	M74HC(T)XXXBIR	74HC(T)XXXN	TC74HC(T)XXXAP
	DIP	CD74HC(T)XXE	74HC(T)XXXN	MM74HC(T)XXXN	MC74HC(T)XXXN	M74HC(T)XXXBIR	74HC(T)XXXN	TC74HC(T)XXXAP
	SOIC	SN74HC(T)XXXD/DW	74HC(T)XXXM/WM	MM74HC(T)XXXM/WM	MC74HC(T)XXXD	M74HC(T)XXXMIR	74HC(T)XXXD	TC74HC(T)XXXAF/AFW
	SOIC	CD74HC(T)XXXM	74HC(T)XXXM/WM	MM74HC(T)XXXM/WM	MC74HC(T)XXXD	M74HC(T)XXXMIR	74HC(T)XXXD	TC74HC(T)XXXAF/AFW
	TSSOP	SN74HC(T)XXXPW	74HC(T)XXXT	MM74HC(T)XXXMTC	MC74HC(T)XXXDT	M74HC(T)XXXT	74HC(T)XXXPW	—

74HC Series (Continued) – HC family offers CMOS inputs with CMOS outputs

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Quantity SAVE

Base No.	Package	Description	Part No.	T.I. Product No.	1	10	100
74HC4046	SOIC-16	Phase locked loop w/ VCO	252460CE	CD74HC4046AM	.39	.33	\$.25
74HC4046	DIP-16	Phase locked loop w/ VCO	251694CE	CD74HC4046AE	.47	.382	.29
74HC4046	TSSOP-16	Phase locked loop w/ VCO					
74HC4049	SOIC-16	Hex buffers inverting	252478CE	CD74HC4049M	.34	.29	.25
74HC4049	DIP-16	Hex buffers inverting	272049CE	CD74HC4049E	.42	.355	.29
74HC4049	TSSOP-16	Hex buffers inverting					
74HC4050	SOIC-16	Hex buffers non-inverting	252486CE	CD74HC4050M	.40	.34	\$.26
74HC4050	DIP-16	Hex buffers non-inverting	272065CE	CD74HC4050E	.45	.364	.276
74HC4050	TSSOP-16	Hex buffers non-inverting	380841CE	CD74HC4050PW	.42	.355	.276
74HC4051	SOIC-16	8-channel analog multiplexer	252380CE	CD74HC4051M	.39	.33	\$.25
74HC4051	DIP-16	8-channel analog multiplexer	251707CE	CD74HC4051E	.40	.34	\$.26
74HC4051	TSSOP-16	8-channel analog multiplexer					
74HC4052	SOIC-16	Dual 4-channel analog multiplexer	252494CE	CD74HC4052M	.42	.355	.236
74HC4052	DIP-16	Dual 4-channel analog multiplexer	272081CE	CD74HC4052E	.48	.36	.273
74HC4052	TSSOP-16	Dual 4-channel analog multiplexer					
74HC4053	SOIC-16	Triple 2-channel analog multiplexer	252515CE	CD74HC4053M	.38	.32	\$.24
74HC4053	DIP-16	Triple 2-channel analog multiplexer	272111CE	CD74HC4053E	.44	.40	.276
74HC4053	TSSOP-16	Triple 2-channel analog multiplexer	380904CE	CD74HC4053PW	.42	.355	.276
74HC4060	SOIC-16	14-stage asynch binary counter and oscillator	252419CE	SN74HC4060D	.43	.355	.248
74HC4060	DIP-16	14-stage asynch binary counter and oscillator	251803CE	SN74HC4060N	.36	.31	\$.23
74HC4060	TSSOP-16	14-stage asynch binary counter and oscillator	380921CE	SN74HC4060PW	.42	.355	.313
74HC4066	SOIC-14	Quad bilateral analog switch	252435CE	SN74HC4066D	.32	.237	.181
74HC4066	DIP-14	Quad bilateral analog switch	251811CE	SN74HC4066N	.45	.364	.276
74HC4066	TSSOP-14	Quad bilateral analog switch	380947CE	SN74HC4066PW	.42	.355	.276
74HC4316	SOIC-16	High speed quad analog switches w/ level translation	252566CE	CD74HC4316M	.42	.36	.28
74HC4316	DIP-16	High speed quad analog switches w/ level translation	272145CE	CD74HC4316E	.34	.282	.235
74HC4316	TSSOP-16	High speed quad analog switches w/ level translation	380963CE	CD74HC4316PW	.42	.324	.286
74HC4514	DIP-24	4-to-16-line decoder/demultiplexer w/ input latch (.3"W)	318908CE	CD74HC4514EN	.88	.83	.80
74HC4514	DIP-24	4-to-16-line decoder/demultiplexer w/ input latch (.6"W)	251820CE	CD74HC4514E	1.69	1.54	1.40
74HC4538	SOIC-16	Dual retrigger precision monostable multivibrator	252443CE	CD74HC4538M	.30	.26	.227
74HC4538	DIP-16	Dual retrigger precision monostable multivibrator	251838CE	CD74HC4538E	.46	.421	.302

DIP  SOIC  TSSOP 

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Part No.	Cross Ref.	1	10	100
243900CE	74HC4046M	\$.35	\$.30	\$.22
45938CE	74HC4046N	.44	.37	.269
380816CE	74HC4046T	.35	.29	.252
243918CE	74HC4049M	.31	.26	\$.20
272057CE	74HC4049N	.39	.33	.25
380832CE	74HC4049T	.31	.266	.235
243926CE	74HC4050M	.36	.31	\$.23
272073CE	74HC4050N	.41	.332	.252
380859CE	74HC4050T	.39	.324	.252
243862CE	74HC4051M	.35	.30	\$.22
88102CE	74HC4051N	.36	.31	.23
380875CE	74HC4051T	.39	.324	.252
245059CE	74HC4052M	.38	.284	\$.215
272090CE	74HC4052N	.44	.329	.249
380891CE	74HC4052T	.39	.299	.227
245067CE	74HC4053M	.35	.30	.22
272129CE	74HC4053N	.40	.365	.252
380912CE	74HC4053T	.39	.324	.252
243871CE	74HC4060M	.39	.30	.23
45962CE	74HC4060N	.33	.30	.27
380939CE	74HC4060T	.39	.324	.286
243889CE	74HC4066M	.29	.216	.165
45971CE	74HC4066N	.41	.332	.252
380955CE	74HC4066T	.39	.324	.252
245112CE	74HC4316M	.39	.33	\$.25
272153CE	74HC4316N	.44	.374	.336
380971CE	74HC4316T	.39	.324	.286
46009CE	74HC4514N (.3"W)	.81	.69	\$.52
243897CE	74HC4538M	.27	.23	.21
46017CE	74HC4538N	.43	.39	.28

74HCT Series – HCT family offers TTL inputs with CMOS outputs

Base No.	Package	Description	Part No.	T.I. Product No.	1	10	100
74HCT00	SOIC-14	Quad 2-input NAND gates	246393CE	SN74HCT00D	*.137	*.103	\$.103
74HCT00	DIP-14	Quad 2-input NAND gates	246406CE	SN74HCT00N	.26	.22	\$.165
74HCT00	TSSOP-14	Quad 2-input NAND gates	381149CE	SN74HCT00PW	*.137	.12	
74HCT02	SOIC-14	Quad 2-input NOR gates	268373CE	SN74HCT02D	.31	.26	\$.20
74HCT02	DIP-14	Quad 2-input NOR gates	246414CE	SN74HCT02N	.36	.291	.202
74HCT04	SOIC-14	Hex inverters	246369CE	SN74HCT04D	*.137	.11	
74HCT04	DIP-14	Hex inverters	246422CE	SN74HCT04N	*.158	.134	
74HCT04	TSSOP-14	Hex inverters	381165CE	SN74HCT04PW	*.137	.12	
74HCT08	SOIC-14	Quad 2-input AND gates	246078CE	SN74HCT08D	*.137	\$.103	
74HCT08	DIP-14	Quad 2-input AND gates	246431CE	SN74HCT08N	.26	.19	.129
74HCT08	TSSOP-14	Quad 2-input AND gates	381181CE	SN74HCT08PW	*.137	.12	
74HCT14	SOIC-14	Hex Schmitt trigger inverters	246377CE	SN74HCT14D	*.155	\$.116	
74HCT14	DIP-14	Hex Schmitt trigger inverters	246449CE	SN74HCT14N	.25	.21	\$.16
74HCT14	TSSOP-14	Hex Schmitt trigger inverters	381229CE	SN74HCT14PW	*.155	.138	

DIP  SOIC  TSSOP 

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* Prepackaged: order in increments of 10 or 100

Part No.	Cross Ref.	1	10	100
246027CE	74HCT00M	*.125	*.125	\$.094
44871CE	74HCT00N	.24	.20	\$.15
381157CE	74HCT00T	*.125	.109	
268390CE	74HCT02M	.28	.24	\$.18
44880CE	74HCT02N	.33	.266	.185
246035CE	74HCT04M	*.125	.101	
44898CE	74HCT04N	*.158	\$.118	
381173CE	74HCT04T	*.125	.125	
246043CE	74HCT08M	*.125	\$.094	
44901CE	74HCT08N	.24	.183	.118
381190CE	74HCT08T	*.125	.109	
246060CE	74HCT14M	*.141	.106	
44935CE	74HCT14N	.23	.20	.15
381237CE	74HCT14T	*.141	.126	

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74HCT Series (Continued) – HCT family offers TTL inputs with CMOS outputs**Quantity SAVE**

SOIC



TSSOP

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			– Save 6-20%			
Base No.	Package	Description	Part No.	T.I. Product No.	1	10 100
74HCT32	SOIC-14	Quad 2-input OR gates	246318CE	SN74HCT32D	* .137	(\$.103)
74HCT32	DIP-14	Quad 2-input OR gates	246457CE	SN74HCT32N	.20 .173	.156
74HCT32	TSSOP-14	Quad 2-input OR gates	381325CE	SN74HCT32PW	* .137	.12
74HCT74	SOIC-14	Dual D-type pos edge-trig flip-flops w/ clear and preset	246262CE	SN74HCT74D	* .155	(.116)
74HCT74	DIP-14	Dual D-type pos edge-trig flip-flops w/ clear and preset	246465CE	SN74HCT74N	.29 .25	(.187)
74HCT74	TSSOP-14	Dual D-type pos edge-trig flip-flops w/ clear and preset	381472CE	SN74HCT74PW	* .155	.138
74HCT86	SOIC-14	Quad 2-input exclusive OR gates	268411CE	CD74HCT86M	.36 .32	.26
74HCT86	DIP-14	Quad 2-input exclusive OR gates	246473CE	CD74HCT86E	.30 .24	(.18)
74HCT123	SOIC-16	Dual retrig. monostable multivibrators w/ reset	271951CE	CD74HCT123M	.32 .27	.22
74HCT123	DIP-16	Dual retrig. monostable multivibrators w/ reset	246481CE	CD74HCT123E	.30 .246	.239
74HCT125	SOIC-14	Quad 3-state bus buffers	271986CE	SN74HCT125D	.32 .297	.225
74HCT125	DIP-14	Quad 3-state bus buffers	246490CE	SN74HCT125N	.29 .237	.212
74HCT138	SOIC-16	3 to 8 decoder/demultiplexer	246385CE	SN74HCT138D	.22 .19	(.143)
74HCT138	DIP-16	3 to 8 decoder/demultiplexer	246502CE	SN74HCT138N	.40 .346	.304
74HCT138	TSSOP-16	3 to 8 decoder/demultiplexer	381202CE	SN74HCT138PW	.26 .218	.193
74HCT139	SOIC-16	2 to 4 decoder/demultiplexer	246289CE	SN74HCT139D	.27 .23	(.17)
74HCT139	DIP-16	2 to 4 decoder/demultiplexer	246511CE	SN74HCT139N	.33 .291	.239
74HCT154	DIP-24	4 to 16 decoder/demultiplexer	246521CE	CD74HCT154E	1.15 .98	(.73)
74HCT157	SOIC-16	Quad 2 to 1 data selectors/multiplexers	246300CE	SN74HCT157D	.45 .38	(.29)
74HCT157	DIP-16	Quad 2 to 1 data selectors/multiplexers	272170CE	SN74HCT157N	.34 .26	.22
74HCT164	SOIC-14	8-bit serial in/parallel out shift register	253016CE	CD74HCT164M	.32 .27	(.20)
74HCT164	DIP-14	8-bit serial in/parallel out shift register	250819CE	CD74HCT164E	.42 .355	.273
74HCT240	SOIC-20	Octal invert. buffer/line driver w/ 3-st. outputs	246351CE	SN74HCT240DW	.28 .24	(.18)
74HCT240	DIP-20	Octal invert. buffer/line driver w/ 3-st. outputs	250827CE	SN74HCT240N	.35 .30	(.22)
74HCT240	TSSOP-20	Octal invert. buffer/line driver w/ 3-st. outputs	381253CE	SN74HCT240PW	.28 .237	.202
74HCT244	SOIC-20	Octal buffer/line driver w/ 3-state outputs	246342CE	SN74HCT244DW	.28 .24	(.18)
74HCT244	DIP-20	Octal buffer/line driver w/ 3-state outputs	250835CE	SN74HCT244N	.34 .29	(.22)
74HCT244	TSSOP-20	Octal buffer/line driver w/ 3-state outputs	381261CE	SN74HCT244PW	.28 .237	.202
74HCT245	SOIC-20	Octal bus transceiver w/ 3-state outputs	246334CE	SN74HCT245DW	.25 .21	(.16)
74HCT245	DIP-20	Octal bus transceiver w/ 3-state outputs	250843CE	SN74HCT245N	.37 .319	.276
74HCT245	TSSOP-20	Octal bus transceiver w/ 3-state outputs	381288CE	SN74HCT245PW	.28 .237	.202
74HCT273	SOIC-20	Octal D-type flip-flop with clear	246326CE	SN74HCT273DW	.28 .24	(.18)
74HCT273	DIP-20	Octal D-type flip-flop with clear	250851CE	SN74HCT273N	.32 .28	.267
74HCT273	TSSOP-20	Octal D-type flip-flop with clear	381309CE	SN74HCT273PW	.28 .237	.202
74HCT373	SOIC-20	Octal transparent D-type latches w/ 3-state outputs	246140CE	SN74HCT373DW	.25 .21	(.16)
74HCT373	DIP-20	Octal transparent D-type latches w/ 3-state outputs	250878CE	SN74HCT373N	.37 .31	(.232)
74HCT373	TSSOP-20	Octal transparent D-type latches w/ 3-state outputs	246166CE	SN74HCT374DW	.28 .24	(.18)
74HCT374	SOIC-20	Octal D-type flip-flop edge-trig. w/ 3-st. outputs	250894CE	SN74HCT374N	.26 .218	.21
74HCT374	DIP-20	Octal D-type flip-flop edge-trig. w/ 3-st. outputs	381368CE	SN74HCT374PW	.28 .237	.202
74HCT374	TSSOP-20	Octal D-type flip-flop edge-trig. w/ 3-st. outputs	250907CE	CD74HCT393E	.47 .355	.27
74HCT393	DIP-14	Dual 4-stage binary counter	246182CE	SN74HCT540DW	.29 .25	.225
74HCT540	SOIC-20	Octal buffer/line driver w/ 3-state outputs	250915CE	SN74HCT540N	.50 .38	.294
74HCT540	DIP-20	Octal buffer/line driver w/ 3-state outputs	246203CE	SN74HCT541DW	.32 .282	.248
74HCT540	TSSOP-20	Octal buffer/line driver w/ 3-state outputs	250923CE	SN74HCT541N	.25 .21	(.16)
74HCT541	SOIC-20	Octal buffer/line driver w/ 3-state NOR gate enabled	381413CE	SN74HCT541PW	.29 .246	.221
74HCT541	DIP-20	Octal buffer/line driver w/ 3-state NOR gate enabled	246211CE	SN74HCT573DW	.29 .25	.235
74HCT573	SOIC-20	Octal transparent D-type latches w/ 3-state outputs	250931CE	SN74HCT573N	.38 .33	.25
74HCT573	DIP-20	Octal transparent D-type latches w/ 3-state outputs	246246CE	SN74HCT574DW	.27 .23	(.173)
74HCT573	TSSOP-20	Octal transparent D-type latches w/ 3-state outputs	250940CE	SN74HCT574N	.43 .33	.25
74HCT574	SOIC-20	Octal D-type F/F w/ 3-st. outputs flow thru	250958CE	CD74HCT688E	.64 .52	.41
74HCT574	DIP-20	Octal D-type F/F w/ 3-st. outputs flow thru				
74HCT574	TSSOP-20	Octal D-type F/F w/ 3-st. outputs flow thru				
74HCT688	DIP-20	8-bit magnitude comparator				

† Note: TI now owns GE, Harris & RCA logic; Fairchild now owns National Semi logic; Philips now owns Signetics; and On Semi is also known as Motorola.

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* Prepackaged: order in increments of 10 or 100

Part No.	Cross Ref.	1	10 100
246123CE	74HCT32M	* .125	(\$.094)
45057CE	74HCT32N	* .158	.143
381333CE	74HCT32T	* .125	.109
246254CE	74HCT74M	* .141	.106
45137CE	74HCT74N	.26 .224	.202
381481CE	74HCT74T	* .141	.126
268429CE	74HCT86M	.33 .29	.20
45145CE	74HCT86N	.28 .22	(.165)
271960CE	74HCT123M	.29 .26	.23
88049CE	74HCT123N	.30 .274	.227
271994CE	74HCT125M	.30 .27	.207
243192CE	74HCT125N	.26 .216	.185
246051CE	74HCT138M	.22 .19	.132
44927CE	74HCT138N	.33 .282	.26
381211CE	74HCT138T	.24 .199	.176
246271CE	74HCT139M	.25 .21	(.16)
63773CE	74HCT139N	.30 .266	.218
88057CE	74HCT154N	1.05 .89	.67
246297CE	74HCT157M	.41 .35	(.26)
272196CE	74HCT157N	.31 .26	.20
253024CE	74HCT164M	.30 .26	(.19)
44978CE	74HCT164N	.39 .324	.249
246086CE	74HCT240WM	.25 .21	(.16)
45014CE	74HCT240N	.32 .27	(.20)
381245CE	74HCT240T	.28 .237	.202
246094CE	74HCT244WM	.25 .21	(.16)
45022CE	74HCT244N	.31 .26	.20
381270CE	74HCT244T	.25 .216	.185
246107CE	74HCT245WM	.23 .20	(.15)
45031CE	74HCT245N	.34 .29	(.22)
381296CE	74HCT245T	.25 .216	.185
246115CE	74HCT273WM	.25 .21	(.16)
45049CE	74HCT273N	.29 .257	.213
381317CE	74HCT273T	.25 .216	.185
246131CE	74HCT373WM	.23 .20	(.15)
45065CE	74HCT373N	.37 .31	.24
381350CE	74HCT373T	.25 .216	.185
246158CE	74HCT374WM	.25 .21	(.16)
45073CE	74HCT374N	.24 .216	.193
381376CE	74HCT374T	.25 .216	.185
243205CE	74HCT393N	.43 .324	(.244)
246174CE	74HCT540WM	.26 .22	.21
109778CE	74HCT540N	.46 .349	.269
381405CE	74HCT540T	.26 .224	.202
246191CE	74HCT541WM	.30 .257	.227
99303CE	74HCT541N	.25 .21	(.16)
381421CE	74HCT541T	.26 .224	.202
246220CE	74HCT573WM	.26 .22	.20
45090CE	74HCT573N	.35 .30	.23
381448CE	74HCT573T	.26 .224	.202
246238CE	74HCT574WM	.25 .21	.169
45102CE	74HCT574N	.39 .30	(.23)
381456CE	74HCT574T	.26 .224	.202
45129CE	74HCT688N	.58 .49	(.37)

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74FXXX CMOS Logic Competitive Cross Reference Guide

Family	Package	TI	Jameco	Fairchild	Philips
F	DIP	SN74FXXXN	74FXXXN	74FXXXPC	N74FXXXN
	SOIC	SN74FXXXD/DW	74FXXXD	74FXXXC	N74FXXXD

74F Series – General purpose family of high speed advanced bipolar logic



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Base No.	Package	Description	Texas Instruments			
			Part No.	T.I. Product No.	1	10 100
74F00	SOIC-14	Quad 2-input NAND gates	282845CE	SN74F00D	.21	.16 .143
74F00	DIP-14	Quad 2-input NAND gates	281471CE	SN74F00N	.21	.16 .14
74F02	SOIC-14	Quad 2-input NOR gates	282888CE	SN74F02D	.24	.21 .17
74F02	DIP-14	Quad 2-input NOR gates	281480CE	SN74F02N	.29	.24 .19
74F04	SOIC-14	Hex inverters	283071CE	SN74F04D	.26	.23 .19
74F04	DIP-14	Hex inverters	281498CE	SN74F04N	.24	.18 .15
74F08	SOIC-14	Quad 2-input AND gates	283080CE	SN74F08D	.22	.18 .16
74F08	DIP-14	Quad 2-input AND gates	281501CE	SN74F08N	.22	.18 .16
74F14	SOIC-14	Hex inverters w/ Schmitt trigger				
74F14	DIP-14	Hex inverters w/ Schmitt trigger				
74F20	DIP-14	Dual 4-input NAND gates	281527CE	SN74F20N	.23	.20 .17
74F30	DIP-14	8-input NAND gate	281535CE	SN74F30N	.47	.40 .285
74F32	SOIC-14	Quad 2-input OR gates	283098CE	SN74F32D	.27	.24 .20
74F32	DIP-14	Quad 2-input OR gates	281543CE	SN74F32N	.36	.30 .22
74F38	SOIC-14	Quad 2-input NAND buffers	283119CE	SN74F38D	.22	.155 .138
74F38	DIP-14	Quad 2-input NAND buffers	281893CE	SN74F38N	.25	.22 .20
74F74	SOIC-14	Quad 2-input NAND buffers w/ open coll. outputs	283135CE	SN74F74D	.30	.264 .202
74F74	DIP-14	D-type flip-flop w/ clear	281906CE	SN74F74N	.44	.36 .247
74F86	SOIC-14	Quad 2-input exclusive-OR gates	283143CE	SN74F86D	.31	.264 .202
74F86	DIP-14	Quad 2-input exclusive-OR gates	281914CE	SN74F86N	.36	.30 .21
74F125	SOIC-14	Quad bus buffer gates w/ 3-state outputs	283151CE	SN74F125D	.37	.30 .23
74F125	DIP-14	Quad bus buffer gates w/ 3-state outputs	281922CE	SN74F125N	.40	.35 .28
74F132	SOIC-14	Quad 2-input NAND Schmitt triggers				
74F138	SOIC-16	3 to 8 decoder/demultiplexer	283186CE	SN74F138D	.34	.27 .25
74F138	DIP-16	3 to 8 decoder/demultiplexer	281931CE	SN74F138N	.42	.34 .26
74F139	DIP-16	1 of 4 decoder/demultiplexer				
74F148	SOIC-16	8 to 3 line priority encoder				
74F148	DIP-16	8 to 3 line priority encoder				
74F157	SOIC-16	2 to 1 data selector/multiplexers	283207CE	SN74F157AD	.37	.30 .28
74F157	DIP-16	2 to 1 data selector/multiplexers	281949CE	SN74F157AN	.42	.34 .26
74F161	SOIC-16	Sync. 4-bit binary counter	283469CE	SN74F161AD	.45	.34 .26
74F161	DIP-16	Sync. 4-bit binary counter	281957CE	SN74F161AN	.42	.33 .30
74F163	DIP-16	Sync. 4-bit presettable binary counter	281965CE	SN74F163AN	.55	.446 .377
74F164	DIP-14	Shift register				
74F169	SOIC-16	4-bit up/down binary counter	283485CE	SN74F169D	2.19	2.09 2.00
74F169	DIP-16	4-bit up/down binary counter	281973CE	SN74F169N	.96	.87 .74
74F174	DIP-16	Hex D-type flip-flop w/ clear	282693CE	SN74F174N	.34	.27 .25
74F240	SOIC-20	Octal invert. buffer/driver with 3-state	283506CE	SN74F240DW	.43	.328 .248
74F240	DIP-20	Octal invert. buffer/driver with 3-state	281981CE	SN74F240N	.45	.34 .26
74F244	SOIC-20	Octal buffer/driver with 3-state outputs	283514CE	SN74F244DW	.52	.46 .36
74F244	DIP-20	Octal buffer/driver with 3-state outputs	281990CE	SN74F244N	.45	.34 .26
74F245	SOIC-20	Octal bus transceiver with 3-state outputs	283549CE	SN74F245DW	.45	.34 .26
74F245	DIP-20	Octal bus transceiver with 3-state outputs	282001CE	SN74F245N	.45	.34 .26
74F257	SOIC-16	Quad 2 to 1 data selector/multi w/ 3-st. outputs	283565CE	SN74F257D	.43	.34 .26

† Note: Fairchild now owns National Semi logic; and Philips now owns Signetics.

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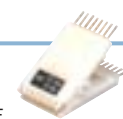
Part No.	Cross Ref.	* Prepackaged: order in increments of 10 or 100		
		1	10	100
287697CE	74F00D	* .141	* .119	
286985CE	74F00N	* .141	* .126	
287689CE	74F02D	.21	.183	.148
286993CE	74F02N	.25	.216	.151
287671CE	74F04D	.23	.199	.168
287005CE	74F04N	.21	.158	.119
287662CE	74F08D	.20	.158	.143
287013CE	74F08N	.20	.158	.129
287654CE	74F14D	.22	.191	.176
287021CE	74F14N	.22	.191	.159
287030CE	74F20N	.21	.174	.149
245121CE	74F30N	.41	.349	.252
287638CE	74F32D	.24	.208	.176
287048CE	74F32N	.20	.183	.16
283127CE	74F38D	.20	.141	.126
245139CE	74F38N	.22	.191	.176
287620CE	74F74D	.27	.241	.171
287056CE	74F74N	.39	.315	.199
287611CE	74F86D	.28	.241	.185
287064CE	74F86N	.32	.266	.185
283160CE	74F125D	.33	.266	.202
245147CE	74F125N	.35	.307	.244
283178CE	74F132D	.32	.257	.235
287566CE	74F138D	.30	.241	.218
287072CE	74F138N	.37	.299	.227
287081CE	74F139N	.26	.216	.189
283194CE	74F148D	.36	.315	.244
245163CE	74F148N	.27	.241	.202
283215CE	74F157AD	.33	.266	.244
245171CE	74F157AN	.37	.299	.227
283477CE	74F161AD	.39	.299	.227
245180CE	74F161AN	.37	.291	.26
245198CE	74F163AN	.50	.407	.34
245201CE	74F164AN	.40	.299	.269
283493CE	74F169D	.68	.56	.52
245219CE	74F169N	.88	.80	.67
282731CE	74F174N	.30	.241	.218
287558CE	74F240D	.39	.299	.227
245227CE	74F240N	.39	.299	.227
287540CE	74F244D	.46	.407	.319
287110CE	74F244N	.39	.299	.198
287531CE	74F245D	.39	.299	.227
287144CE	74F245N	.53	.402	.302
283557CE	74F257D	.38	.299	.227

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- Color: white



Part No.	Cross Ref.	Description	1	10	25
22103CE	JTC16	16-pin (for 8, 14 and 16-pin ICs)	\$6.95	\$6.25	\$5.59
22120CE	JTC20	20-pin (for 18 and 20-pin ICs)	8.95	6.50	5.35
22162CE	JTC28	28-pin (for 24 and 28-pin ICs)	10.95	9.95	8.95
22189CE	JTC40	40-pin (for 32 and 40-pin ICs)	11.95	11.35	10.75

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Base No.	Package	Description	Texas Instruments – Save 6-20%			
			Part No.	T.I. Product No.	1	10 100
74F257	DIP-16	Quad 2 to 1 data selector/multi w/ 3-st. outputs	282044CE	SN74F257N	\$.34	\$.28 \$.26
74F273	DIP-20	Octal D-type flip-flop				
74F299	DIP-20	8-bit shift/storage register w/ 3-state outputs	282052CE	SN74F299N	1.25	1.00 .76
74F373	SOIC-20	Octal transparent D-type latch w/ 3-state outputs	283590CE	SN74F373DW	.44	.355 .267
74F373	DIP-20	Octal transparent D-type latch w/ 3-state outputs	282079CE	SN74F373N	.60	.46 .35
74F374	SOIC-20	Octal edge trig. D-type flip-flop with 3-st. outputs	283602CE	SN74F374DW	.43	.33 .25
74F374	DIP-20	Octal edge trig. D-type flip-flop with 3-st. outputs	282600CE	SN74F374N	.40	.31 .257
74F521	SOIC-20	8-bit identity comparator	283670CE	SN74F521DW	.50	.382 .294
74F521	DIP-20	8-bit identity comparator	282802CE	SN74F521N	.78	.66 .53
74F541	SOIC-20	Octal buffer/driver with 3-state outputs	304961CE	SN74F541DW	.72	.55 .41
74F541	DIP-20	Octal buffer/driver with 3-state outputs	282765CE	SN74F541N	.74	.56 .43
74F543	SOIC-24	Octal reg. Transceiver w/ 3-state outputs	283611CE	SN74F543DW	.95	.80 .62
74F543	DIP-24	Octal reg. Transceiver w/ 3-state outputs				
74F573	SOIC-20	Octal reg. Latch w/ 3-state outputs	283637CE	SN74F573DW	.43	.328 .248
74F573	DIP-20	Octal reg. Latch w/ 3-state outputs	282642CE	SN74F573N	.43	.328 .248
74F574	SOIC-20	D-type flip-flop with 3-state outputs	283645CE	SN74F574DW	.43	.328 .304
74F574	DIP-20	D-type flip-flop with 3-state outputs	282669CE	SN74F574N	.58	.437 .331
74F579	DIP-20	8-bit bidirectional counter				

† Note: Fairchild now owns National Semi logic; Philips now owns Signetics; and On Semi is also known as Motorola.

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Part No.	Cross Ref.	Jameco Value Offering		
		1	10	100
245235CE	74F257N	\$.30	\$.249	\$.244
287099CE	74F273N	.48	.415	.319
281463CE	74F299N	1.15	.93	.71
287494CE	74F373D	.40	.324	.244
287161CE	74F373N	.45	.398	.302
287486CE	74F374D	.39	.299	.227
287187CE	74F374N	.35	.274	.23
283696CE	74F521D	.46	.349	.269
282811CE	74F521N	.69	.58	.47
283653CE	74F541D	.66	.498	.378
282773CE	74F541N	.66	.498	.378
283629CE	74F543D	.86	.73	.59
245251CE	74F543N	.83	.70	.56
287478CE	74F573D	.39	.299	.198
287195CE	74F573N	.39	.299	.199
287460CE	74F574D	.39	.299	.198
287216CE	74F574N	.53	.398	.302
245260CE	74F579N	2.35	1.89	1.49

74LSXXX CMOS Logic Competitive Cross Reference Guide

Family	Package	TI	Jameco	Fairchild	On Semi	RENESAS
LS	DIP	SN74LSXXXN	74HC(T)XXXN	DM74LSXXXN	SN74LSXXXN	HD74LSXXXP
	SOIC	SN74LSXXXD/DW	74HC(T)XXXM	DM74LSXXXM/WM	SN74LSXXXD/DW	—

74LS Series – Low Power Schottky Logic

Quantity SAVE



SOIC

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Base No.	Package	Description	Texas Instruments – Save 6-20%			
			Part No.	T.I. Product No.	1	10 100
74LS00	SOIC-14	Quad 2-input NAND gate	308582CE	SN74LS00D	* \$1.171	* \$1.18
74LS00	DIP-14	Quad 2-input NAND gate	283725CE	SN74LS00N	.45	.364 .276
74LS02	SOIC-14	Quad 2-input NOR gate	308603CE	SN74LS02D	.45	.364 .276
74LS02	DIP-14	Quad 2-input NOR gate	283741CE	SN74LS02N	.43	.328 .248
74LS03	DIP-14	Quad 2-input NAND gate (O.C.)	283784CE	SN74LS03N	.45	.364 .276
74LS04	SOIC-14	Hex inverter	308611CE	SN74LS04D	.45	.364 .276
74LS04	DIP-14	Hex inverter	283792CE	SN74LS04N	.45	.364 .276
74LS05	SOIC-14	Hex inverter (O.C.)	308620CE	SN74LS05D	.45	.364 .276
74LS05	DIP-14	Hex inverter (O.C.)	283805CE	SN74LS05N	.45	.364 .276
74LS06	SOIC-14	Hex inverter buffer/driver (O.C.)	309067CE	SN74LS06D	.70	.59 .478
74LS06	DIP-14	Hex inverter buffer/driver (O.C.)	295304CE	SN74LS06N	.70	.59 .478
74LS07	SOIC-14	Hex buffer/driver (O.C. hi-voltage)	308638CE	SN74LS07D	.70	.57 .478
74LS07	DIP-14	Hex buffer/driver (O.C. hi-voltage)	295312CE	SN74LS07N	.60	.58 .46
74LS08	SOIC-14	Quad 2-input AND gate	308654CE	SN74LS08D	.45	.364 .276
74LS08	DIP-14	Quad 2-input AND gate	295401CE	SN74LS08N	.45	.364 .276
74LS09	SOIC-14	Quad 2-input AND gate (O.C.)	309083CE	SN74LS09D	.45	.364 .276
74LS09	DIP-14	Quad 2-input AND gate (O.C.)	295419CE	SN74LS09N	.56	.428 .322
74LS10	SOIC-14	Triple 3-input NAND gate				
74LS10	DIP-14	Triple 3-input NAND gate	295427CE	SN74LS10N	.45	.364 .276
74LS11	SOIC-14	Triple 3-input AND gate				
74LS11	DIP-14	Triple 3-input AND gate	295443CE	SN74LS11N	.45	.364 .275
74LS14	SOIC-14	Hex inverter Schmitt trigger	308849CE	SN74LS14D	.41	.327 .248
74LS14	DIP-14	Hex inverter Schmitt trigger	295460CE	SN74LS14N	.41	.328 .248

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* Prepackaged: order in increments of 10 or 100

Part No.	Cross Ref.	Jameco Value Offering		
		1	10	100
198361CE	74LS00M	* \$1.158	* \$1.09	
46252CE	74LS00N**	.41	.27	.24
198379CE	74LS02M	.27	.23	.21
46287CE	74LS02N**	.41	.25	.21
46308CE	74LS03N	.41	.33	.25
198387CE	74LS04M	.41	.29	.21
46316CE	74LS04N**	.41	.26	.23
198395CE	74LS05M	.41	.33	.252
46341CE	74LS05N*	.41	.332	.252
309075CE	74LS06M	.64	.54	.437
46359CE	74LS06N	.64	.54	.437
198408CE	74LS07M	.64	.54	.41
46367CE	74LS07N	.55	.49	.42
198416CE	74LS08M	.41	.33	.25
46375CE	74LS08N**	.36	.31	.22
309091CE	74LS09M	.41	.332	.252
46391CE	74LS09N	.51	.388	.294
198424CE	74LS10M	.41	.332	.252
46404CE	74LS10N*	.38	.25	.188
198432CE	74LS11M	.36	.263	.197
46439CE	74LS11N*	.41	.35	.26
198441CE	74LS14M	.37	.299	.227
46440CE	74LS14N*	.37	.299	.227

† Note: Fairchild now owns National Semi logic; Philips now owns Signetics; and On Semi is also known as Motorola; Renesas is the new company formed by the merger of Mitsubishi and Hitachi
 * 10 pcs. in 74LS series IC cabinet kit, pg 32 ** 20 pcs. in 74LS series IC cabinet kit, pg 32

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Base No.	Package	Description	Texas Instruments – Save 6-20%			
			Part No.	T.I. Product No.	1	10 100
74LS20	SOIC-14	Dual 4-input NAND gate				
74LS20	DIP-14	Dual 4-input NAND gate	295478CE	SN74LS20N	.31	.209 .202
74LS21	DIP-14	Dual 4-input AND gate	295486CE	SN74LS21N	.27	.237 .202
74LS27	DIP-14	Triple 3-input NOR gate	295494CE	SN74LS27N	.45	.364 .276
74LS30	SOIC-14	8-input NAND gate				
74LS30	DIP-14	8-input NAND gate	295507CE	SN74LS30N	.45	.364 .276
74LS32	SOIC-14	Quad 2-input OR gate	308873CE	SN74LS32D	.45	.364 .276
74LS32	DIP-14	Quad 2-input OR gate	295515CE	SN74LS32N	.31	.28 .248
74LS37	DIP-14	Quad 2-input NAND gate buffer	295558CE	SN74LS37N	.59	.482 .442
74LS38	DIP-14	Quad 2-input NAND gate buffer (O.C.)	295566CE	SN74LS38N	.36	.246 .239
74LS42	DIP-16	BCD-to-decimal decoder/driver	295574CE	SN74LS42N	1.29	.92 .83
74LS47	DIP-16	BCD to 7-seg. decoder/driver (O.C.)	295582CE	SN74LS47N	.77	.58 .539
74LS48	DIP-16	BCD to 7-seg. decoder/driver				
74LS73	DIP-14	Dual JK flip-flop with clear, center VCC/GND	295700CE	SN74LS73AN	1.09	.96 .77
74LS74	SOIC-14	Dual D flip-flop	308881CE	SN74LS74AD	.45	.364 .276
74LS74	DIP-14	Dual D flip-flop	295726CE	SN74LS74AN	.45	.364 .276
74LS75	SOIC-16	4-bit bi-stable latch				
74LS75	DIP-16	4-bit bi-stable latch	295734CE	SN74LS75N	.95	.89 .82
74LS76	DIP-16	Dual JK flip-flop with preset and clear				
74LS83	DIP-16	4-bit binary full adder				
74LS85	SOIC-16	4-bit magnitude comparator	308902CE	SN74LS85D	.68	.52 .394
74LS85	DIP-16	4-bit magnitude comparator	295742CE	SN74LS85N	.46	.419 .363
74LS86	SOIC-14	Quad Exclusive-OR gate	308911CE	SN74LS86AD	.45	.364 .276
74LS86	DIP-14	Quad Exclusive-OR gate	295751CE	SN74LS86AN	.38	.324 .238
74LS90	SOIC-14	Decade counter				
74LS90	DIP-14	Decade counter	295769CE	SN74LS90N	.53	.486 .421
74LS92	DIP-14	Divide-by-12 counter	295814CE	SN74LS92N	1.15	.98 .74
74LS93	SOIC-14	4-bit binary counter				
74LS93	DIP-14	4-bit binary counter	295822CE	SN74LS93N	.95	.85 .76
74LS95	DIP-14	4-bit parallel-access shift register				
74LS107	DIP-14	Dual JK flip-flop with clear	295865CE	SN74LS107AN	.79	.72 .66
74LS109	SOIC-16	Dual JK pos. edge-trig. flip-flop	309104CE	SN74LS109AD	.65	.491 .373
74LS109	DIP-16	Dual JK pos. edge-trig. flip-flop	295873CE	SN74LS109AN	.65	.64 .497
74LS112	DIP-16	Dual JK neg. edge-trig. flip-flop	300855CE	SN74LS112AN	.43	.328 .248
74LS122	DIP-14	Retrig. mono. multivibrator comm. CLK	300863CE	SN74LS122N	.50	.382 .289
74LS123	SOIC-16	Dual mono. multivibrator with clear	308937CE	SN74LS123D	.50	.382 .29
74LS123	DIP-16	Dual mono. multivibrator with clear	300880CE	SN74LS123N	.50	.382 .289
74LS125	SOIC-14	Quad 3-state buffer	308945CE	SN74LS125AD	.50	.382 .29
74LS125	DIP-14	Quad bus buffer neg. enable tri-state	300901CE	SN74LS125AN	.36	.309 .285
74LS126	SOIC-14	Quad bus buffer tri-state	309121CE	SN74LS126AD	.50	.382 .29
74LS126	DIP-14	Quad bus buffer tri-state	300927CE	SN74LS126AN	.50	.382 .289
74LS132	DIP-14	Quad 2-input NAND Schmitt trigger	300935CE	SN74LS132N	.54	.41 .311
74LS136	DIP-14	Quad EXCLUSIVE-OR gate (O.C.)	301225CE	SN74LS136N	.58	.437 .331
74LS138	SOIC-16	3 to 8 decoder/demultiplexer	308953CE	SN74LS138D	.50	.382 .29
74LS138	DIP-16	3 to 8 decoder/demultiplexer	301233CE	SN74LS138N	.50	.382 .29
74LS139	SOIC-16	2 to 4 decoder/demultiplexer	309147CE	SN74LS139AD	.41	.328 .294
74LS139	DIP-16	2 to 4 decoder/demultiplexer	301268CE	SN74LS139AN	.50	.421 .313
74LS145	SOIC-16	BCD-to-decimal decoder/driver (O.C.)	309163CE	SN74LS145D	.37	.319 .294
74LS145	DIP-16	BCD-to-decimal decoder/driver (O.C.)	301276CE	SN74LS145N	.79	.60 .46
74LS148	DIP-16	8 to 3 priority encoder	301330CE	SN74LS148N	.85	.73 .59
74LS151	SOIC-16	8-input multiplexer				
74LS151	DIP-16	8-input multiplexer	301348CE	SN74LS151N	.50	.382 .29
74LS153	DIP-16	Dual 4-to-1 selector/multiplexer	301532CE	SN74LS153N	.45	.396 .263
74LS154	DIP-24	4 to 16 line decoder/demultiplexer				
74LS155	DIP-16	Dual 2/4 demultiplexer	301559CE	SN74LS155AN	.81	.60 .55
74LS156	DIP-16	Dual 2/4 demultiplexer (O.C.)	301591CE	SN74LS156N	.39	.309 .29
74LS157	SOIC-16	Quad 2/1 data selector	308970CE	SN74LS157D	.33	.282 .258
74LS157	DIP-16	Quad 2/1 data selector	301612CE	SN74LS157N	.50	.382 .29
74LS160	DIP-16	Decade counter with asynch. clear				

† Note: Fairchild now owns National Semi logic; Philips now owns Signetics; and On Semi is also known as Motorola; Renesas is the new company formed by the merger of Mitsubishi and Hitachi
*10 pcs. in 74LS series IC cabinet kit, pg 32 *20 pcs. in 74LS series IC cabinet kit, pg 32

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Part No.	Cross Ref.	1	10	100
198459CE	74LS20M	\$.51	\$.44	\$.32
47095CE	74LS20N*	.28	.191	.185
47108CE	74LS21N	.25	.21	.16
47378CE	74LS27N	.41	.31	.233
198467CE	74LS30M	.24	.22	.20
47458CE	74LS30N*	.41	.332	.252
198475CE	74LS32M	.41	.332	.252
47466CE	74LS32N**	.29	.26	.23
47597CE	74LS37N	.54	.46	.34
47693CE	74LS38N	.33	.224	.202
47773CE	74LS42N	.76	.65	.54
47790CE	74LS47N*	.72	.52	.45
47811CE	74LS48N	4.99	4.24	3.18
47992CE	74LS73N*	.37	.338	.238
198491CE	74LS74M	.41	.332	.252
48004CE	74LS74N**	.36	.25	.22
198504CE	74LS75M	.68	.57	.41
48021CE	74LS75N*	.86	.73	.55
48039CE	74LS76N	.83	.68	.61
48063CE	74LS83N	1.49	1.35	1.19
198512CE	74LS85M	.62	.437	.36
48071CE	74LS85N*	.42	.382	.345
198521CE	74LS86M	.41	.33	.25
48098CE	74LS86N*	.35	.30	.22
198539CE	74LS90M	.70	.52	.383
48119CE	74LS90N*	.49	.45	.39
48143CE	74LS92N	.99	.76	.63
198547CE	74LS93M	.56	.476	.357
48151CE	74LS93N*	.89	.79	.70
48178CE	74LS95N	1.05	.91	.79
46412CE	74LS107N	.72	.51	.36
309112CE	74LS109M	.59	.448	.34
46421CE	74LS109N	.57	.48	.35
46447CE	74LS112N	.39	.299	.227
46471CE	74LS122N	.46	.35	.27
198555CE	74LS123M	.46	.35	.27
46480CE	74LS123N*	.45	.35	.27
243168CE	74LS125AM	.46	.349	.265
46501CE	74LS125N*	.33	.282	.26
309139CE	74LS126AM	.46	.349	.265
46527CE	74LS126N	.37	.345	.253
46551CE	74LS132N	.49	.369	.298
46586CE	74LS136N	.53	.40	.30
198563CE	74LS138M	.46	.349	.269
46607CE	74LS138N**	.45	.35	.26
309155CE	74LS139AM	.37	.299	.265
46623CE	74LS139N*	.46	.35	.20
309171CE	74LS145M	.34	.291	.269
46666CE	74LS145N	.73	.55	.423
46682CE	74LS148N	.79	.68	.55
198571CE	74LS151M	.31	.26	.20
46703CE	74LS151N*	.45	.349	.269
46720CE	74LS153N	.41	.35	.26
46738CE	74LS154N	5.15	4.59	3.69
46754CE	74LS155N*	.74	.63	.47
46762CE	74LS156N	.35	.282	.212
198580CE	74LS157M	.30	.26	.19
46771CE	74LS157N*	.45	.40	.33
46800CE	74LS160N	2.49	2.39	2.29

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DIP



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			Texas Instruments – Save 6-20%			
Base No.	Package	Description	Part No.	T.I. Product No.	1	10 100
74LS161	DIP-16	Synch 4-bit counter	301647CE	SN74LS161AN	.50	.382 .29
74LS163	DIP-16	Fully synch. 4-bit counter	301663CE	SN74LS163AN	.50	.382 .29
74LS164	SOIC-14	8-bit serial shift register	309180CE	SN74LS164D	.50	.414 .373
74LS164	DIP-14	8-bit serial shift register	301671CE	SN74LS164N	.47	.382 .29
74LS165	DIP-16	8-bit serial shift register, parallel load	301680CE	SN74LS165AN	.45	.364 .275
74LS166	DIP-16	8-bit shift register, parallel load	301727CE	SN74LS166AN	.79	.60 .455
74LS169	DIP-16	Synch. binary up/down counter	301735CE	SN74LS169BN	.65	.491 .373
74LS173	DIP-16	4-bit D-type reg. tri-state	301743CE	SN74LS173AN	.91	.90 .89
74LS174	DIP-16	Hex D flip-flop with clear	301760CE	SN74LS174N	.49	.328 .29
74LS175	DIP-16	Quad D flip-flop with clear	301778CE	SN74LS175N	.29	.246 .23
74LS181	DIP-24	Arithmetic logic unit/function generator	301786CE	SN74LS181N	4.19	3.54 2.56
74LS190	DIP-16	Synchronous up/down counter				
74LS191	DIP-16	Up/down binary counter	301815CE	SN74LS191N	.58	.482 .455
74LS192	DIP-16	Decade up/down counter with clear				
74LS193	SOIC-16	Binary up/down counter with clear				
74LS193	DIP-16	Binary up/down counter with clear	301831CE	SN74LS193N	.64	.53 .486
74LS194	DIP-16	4-bit bi-directional shift register	301858CE	SN74LS194AN	.81	.68 .55
74LS195	DIP-16	4-bit parallel-access shift register				
74LS221	SOIC-16	Dual monostable multivibrator	308988CE	SN74LS221D	.79	.65 .59
74LS221	DIP-16	Dual mono. multivibrator Schmitt trigger	308283CE	SN74LS221N	.36	.29 .276
74LS240	SOIC-20	Octal invert. line driver tri-state	309008CE	SN74LS240DW	.58	.437 .331
74LS240	DIP-20	Octal invert. line driver tri-state	308291CE	SN74LS240N	.37	.328 .313
74LS241	DIP-20	Octal bus/line driver tri-state	308304CE	SN74LS241N	.40	.328 .304
74LS244	SOIC-20	Octal driver tri-state	309016CE	SN74LS244DW	.58	.437 .331
74LS244	DIP-20	Octal driver tri-state	308312CE	SN74LS244N	.48	.40 .331
74LS245	SOIC-20	Octal bus transceiver tri-state	309024CE	SN74LS245DW	.43	.328 .248
74LS245	DIP-20	Octal bus transceiver tri-state	308321CE	SN74LS245N	.58	.437 .378
74LS247	DIP-16	BCD to 7-segment decoder/driver (O.C.)	308347CE	SN74LS247N	1.05	.87 .70
74LS251	DIP-16	8-channel multiplexer tri-state	308355CE	SN74LS251N	.59	.437 .351
74LS257	DIP-16	Quad 2-input multiplexer tri-state	308363CE	SN74LS257BN	.61	.464 .352
74LS259	DIP-16	8-bit addressable latch	308371CE	SN74LS259BN	.51	.391 .359
74LS266	DIP-14	Quad EXCLUSIVE-NOR gate (O.C.)	308380CE	SN74LS266N	.72	.60 .54
74LS273	SOIC-20	Octal D-type flip-flop with clear	309032CE	SN74LS273DW	.58	.437 .331
74LS273	DIP-20	Octal D-type flip-flop with clear	308398CE	SN74LS273N	.58	.437 .331
74LS279	DIP-16	Quad set-reset latches	308401CE	SN74LS279AN	.55	.428 .368
74LS283	DIP-16	4-bit binary full add with fast carry	308435CE	SN74LS283N	.44	.428 .405
74LS299	DIP-20	8-bit universal shift/storage register	308427CE	SN74LS299N	.90	.83 .465
74LS365	DIP-16	Hex buffer with logical OR tri-state	308443CE	SN74LS365AN	.86	.73 .59
74LS367	DIP-16	Hex buffer tri-state	308451CE	SN74LS367AN	.47	.382 .35
74LS368	DIP-16	Hex bus driver w/ tri-state	309278CE	SN74ALS368AN	.42	.364 .34
74LS373	SOIC-20	Octal D flip-flop tri-state	309041CE	SN74LS373DW	.43	.328 .248
74LS373	DIP-20	Octal D flip-flop tri-state	308460CE	SN74LS373N	.49	.421 .378
74LS374	SOIC-20	Octal D F/F edge-trig tri-state	309059CE	SN74LS374DW	.58	.437 .331
74LS374	DIP-20	Octal D F/F edge-trig tri-state	308478CE	SN74LS374N	.49	.421 .367
74LS377	DIP-20	Octal D register common enable	308486CE	SN74LS377N	.81	.68 .55
74LS390	DIP-16	Dual 4-bit decade counter	308494CE	SN74LS390N	.77	.64 .53
74LS393	SOIC-16	Dual 4-bit binary counter				
74LS393	DIP-14	Dual 4-bit binary counter	308507CE	SN74LS393N	.57	.455 .432
74LS423	DIP-14	Retrig monostable multivibrator	309294CE	SN74LS423N	1.05	.87 .76
74LS540	DIP-20	Octal invert. buffer/line driver tri-state	308515CE	SN74LS540N	.76	.64 .515
74LS541	SOIC-20	Octal buffer/line driver tri-state	309227CE	SN74LS541DW	.60	.455 .414
74LS541	DIP-20	Octal buffer/line driver tri-state	308523CE	SN74LS541N	.50	.41 .368
74LS573	DIP-20	Octal D-type F/F latch tri-state				
74LS574	DIP-20	Octal D-type F/F edge-trig. tri-state				
74LS590	DIP-16	8-bit binary counter w/o reg. tri-state	308531CE	SN74LS590N	4.99	4.05 3.65
74LS595	DIP-16	8-bit serial-to-parallel shift reg. tri-state	308540CE	SN74LS595N	4.99	4.05 3.65
74LS645	DIP-20	Octal bus transceiver tri-state (O.C.)	308558CE	SN74LS645-1N	1.79	1.44 1.10
74LS682	DIP-20	8-bit magnitude comparator	309251CE	SN74LS682N	1.19	.956 .73
74LS688	DIP-20	8-bit magnitude comparator	308574CE	SN74LS688N	.87	.83 .76

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Part No.	Cross Ref.	1	10	100
46818CE	74LS161N	.46	.349	\$.265
46842CE	74LS163N	.46	.349	\$.265
309198CE	74LS164M	.46	.349	.265
46851CE	74LS164N	.43	.36	\$.27
46877CE	74LS165N	.45	.33	.193
46885CE	74LS166N	.71	.54	\$.41
46906CE	74LS169N	.61	.47	\$.35
46922CE	74LS173N	.82	.81	.80
46931CE	74LS174N*	.46	.299	.265
46957CE	74LS175N*	.26	.249	.21
46973CE	74LS181N	1.95	1.64	1.11
46990CE	74LS190N	2.95	2.65	2.55
47001CE	74LS191N	.53	.44	.42
47010CE	74LS192N	3.95	3.59	3.25
198598CE	74LS193M	.87	.74	\$.55
47036CE	74LS193N*	.59	.49	.45
47052CE	74LS194N	.74	.63	.50
47061CE	74LS195N	.93	.80	\$.60
243176CE	74LS221M	.72	.55	\$.42
47124CE	74LS221N	.33	.267	.25
198619CE	74LS240M	.53	.40	\$.30
47141CE	74LS240N*	.33	.28	.21
47167CE	74LS241N	.36	.299	\$.23
198627CE	74LS244M	.53	.398	\$.302
47183CE	74LS244N	.44	.37	.28
198635CE	74LS245M	.39	.299	\$.227
47212CE	74LS245N*	.53	.40	.35
47247CE	74LS247N	.94	.80	.62
47271CE	74LS251N	.53	.398	\$.299
47298CE	74LS257N	.56	.423	\$.322
47327CE	74LS259N	.47	.357	.328
47360CE	74LS266N	.65	.498	.378
198643CE	74LS273M	.53	.398	\$.302
47386CE	74LS273N*	.45	.357	.276
47407CE	74LS279N	.50	.41	.319
47423CE	74LS283N	.40	.36	\$.27
47440CE	74LS299N	.81	.75	.419
47546CE	74LS365N	.77	.66	.54
47562CE	74LS367N	.42	.38	.285
309286CE	74ALS368AN	.39	.332	.311
198651CE	74LS373M	.39	.299	\$.227
47600CE	74LS373N*	.45	.39	.35
198660CE	74LS374M	.53	.398	\$.302
47634CE	74LS374N*	.45	.39	.34
47669CE	74LS377N	.31	.20	.15
47722CE	74LS390N	.69	.59	.44
243184CE	74LS393M	.79	.60	.45
47731CE	74LS393N	.54	.46	\$.34
309307CE	74LS423AN	.95	.79	.69
47861CE	74LS540N	.69	.59	.47
309235CE	74LS541WM	.55	.415	.378
47870CE	74LS541N	.46	.39	.29
64418CE	74LS573N	2.05	1.85	1.55
64426CE	74LS574N	2.15	1.89	1.69
47909CE	74LS590N	4.55	3.65	\$.274
103974CE	74LS595N	4.55	3.87	\$.290
47950CE	74LS645N	1.59	1.31	1.00
309260CE	74LS682N	1.05	.86	.66
47984CE	74LS688N	.80	.68	\$.51

† Note: Fairchild now owns National Semi logic; Philips now owns Signetics; and On Semi is also known as Motorola; Renesas is the new company formed by the merger of Mitsubishi and Hitachi

* 10 pcs. in 74LS series IC cabinet kit, pg 32

Standard Logic (Continued)

Color Code Legend
New Sale Lower\$ QtySave

Thousands of new ICs are in the pipeline for addition and not shown below. Call us to see if you can save 10-20%.

74ALS Series



Part No.	Cross Ref.	Pkg.	Description	1	10	100
309868CE	74ALS00AM	SOIC-14	Quad 2-input NAND gates	.22	\$.191	\$.176
245294CE	74ALS00AN	DIP-14	Quad 2-input NAND gates	.39	.30	.23
309905CE	74ALS02AM	SOIC-14	Quad 2-input NOR gates	.31	.274	.202
43959CE	74ALS02N	DIP-14	Quad 2-input NOR gates	.30	.27	.22
309948CE	74ALS04BM	SOIC-14	Hex inverters	.31	.274	.198
245307CE	74ALS04BN	DIP-14	Hex inverters	.38	.33	.23
309972CE	74ALS05AM	SOIC-14	Hex inverters w/ open collector outputs	.31	.274	.202
245286CE	74ALS05AN	DIP-14	Hex inverters w/ open collector outputs	.38	.33	.23
310009CE	74ALS08M	SOIC-14	Quad 2-input AND gates	.31	.274	.198
43983CE	74ALS08N	DIP-14	Quad 2-input AND gates	.28	.25	.21
310025CE	74ALS10AM	SOIC-14	Triple 3-input NAND gates	.27	.257	.227
245315CE	74ALS10AN	DIP-14	Triple 3-input NAND gates	.31	.30	.28
310041CE	74ALS11AM	SOIC-14	Triple 3-input AND gates	.31	.274	.202
245323CE	74ALS11AN	DIP-14	Triple 3-input AND gates	.43	.38	.28
310068CE	74ALS27M	SOIC-14	Triple 3-input NOR gates	.33	.282	.218
63503CE	74ALS27N	DIP-14	Triple 3-input NOR gates	.26	.22	.165
245796CE	74ALS30AN	DIP-14	8-input NAND gate	.39	.30	.23
310084CE	74ALS32M	SOIC-14	Quad 2-input OR gates	.23	.133	.126
44134CE	74ALS32N	DIP-14	Quad 2-input OR gates	.40	.32	.23
310113CE	74ALS74AM	SOIC-14	Dual D-pos. edge-trig. flip-flops w/ preset & clear	.21	.166	.143
245892CE	74ALS74AN	DIP-14	Dual D-pos. edge-trig. flip-flops w/ preset & clear	.39	.30	.23
310156CE	74ALS86M	SOIC-14	Quad 2-input exclusive OR gates	.37	.299	.227
44214CE	74ALS86N	DIP-14	Quad 2-input exclusive OR gates	.25	.21	.16
310199CE	74ALS138M	SOIC-16	3 to 8 line decoder/demultiplexer	.46	.349	.269
309614CE	74ALS138N	DIP-16	3 to 8 line decoder/demultiplexer	.46	.349	.265
310228CE	74ALS139M	SOIC-16	2 to 4 line decoder/demultiplexer	.44	.349	.297
309649CE	74ALS139N	DIP-16	2 to 4 line decoder/demultiplexer	.59	.448	.336
245754CE	74ALS151N	DIP-16	1 of 8 line data selector/multiplexer	.48	.37	.29
309761CE	74ALS161BN	DIP-16	4-bit decade/binary counter	.42	.34	.283
309702CE	74ALS174N	DIP-8	Quad D-type flip-flops w/ clear	.53	.398	.302
309729CE	74ALS175N	DIP-16	Quad D-type flip-flops w/ clear	.52	.398	.302
310261CE	74ALS240AMS	SOIC-20	Octal invert. 3-state bus drivers	.39	.315	.294
245753CE	74ALS240AN	DIP-20	Octal invert. 3-state bus drivers	.49	.38	.29
310295CE	74ALS244AMS	SOIC-20	Octal 3-state bus drivers	.59	.448	.336
245761CE	74ALS244AN	DIP-20	Octal 3-state bus drivers	.53	.41	.30
310332CE	74ALS245AMS	SOIC-20	Octal 3-state bus transceivers	.59	.448	.336
245770CE	74ALS245AN	DIP-20	Octal 3-state bus transceivers	.45	.35	.27
44100CE	74ALS251N	DIP-16	3-st. 1 of 8 line data selector/multiplexer	.58	.49	.37
245788CE	74ALS258N	DIP-20	3-st. quad 1 of 2 line data selector/multip. (inverting)	.67	.51	.39
310359CE	74ALS273M	SOIC-20	Octal D-type edge-trig. flip-flops w/ clear inputs	.71	.60	.454
44118CE	74ALS273N	DIP-20	Octal D-type edge-trig. flip-flops w/ clear inputs	.62	.53	.40
310421CE	74ALS373M	SOIC-20	Octal D-type 3-st. transparent latches	.59	.448	.34
44142CE	74ALS373N	DIP-20	Octal D-type 3-st. transparent latches	.34	.29	.22
310455CE	74ALS374M	SOIC-20	Octal 3-st. D-type edge-trig. flip-flops	.41	.357	.328
245809CE	74ALS374AN	DIP-20	Octal 3-st. D-type edge-trig. flip-flops	.49	.38	.29
310471CE	74ALS520M	SOIC-20	8-bit comparator	1.12	.90	.77
245817CE	74ALS520N	DIP-20	8-bit comparator	1.12	.95	.76
245825CE	74ALS521N	DIP-20	8-bit comparator with pullup resistors	1.37	1.16	.82
245833CE	74ALS533N	DIP-20	Octal D-type transparent latches w/ 3-st. outputs	1.21	1.02	.73
310535CE	74ALS540M	SOIC-20	Octal inverting buffers & line driv. w/ 3-st. outputs	1.22	1.08	.87
245841CE	74ALS540N	DIP-20	Octal inverting buffers & line driv. w/ 3-st. outputs	.80	.67	.54
310551CE	74ALS541M	SOIC-20	Octal buffers and line drivers w/ 3-st. outputs	.74	.62	.504

74LS Series IC Kit

Includes:
20-drawer component cabinet (319599CE),
20 clear plastic drawers (319601CE),
20 clear dividers (319610CE), pg 273 and
30 adhesive labels for drawers to identify parts in kit
10 each: 74LS05, 74LS10, 74LS11, 74LS14, 74LS20, 74LS30,
74LS47, 74LS73, 74LS75, 74LS85, 74LS86, 74LS90
74LS93, 74LS123, 74LS125, 74LS139, 74LS151, 74LS155, 74LS157, 74LS174,
74LS175, 74LS193, 74LS240, 74LS244, 74LS245, 74LS273, 74LS373, 74LS374
20 each: 74LS00, 74LS02, 74LS04, 74LS08, 74LS32, 74LS74, 74LS138



Part No.	Description	Wt. (lbs.)	1	10
84961CE	420 pcs. 74LS IC kit	6.7	\$119.95	\$107.95
130391CE	Refill for 84961CE (420 pcs.)	2.0	99.99	89.99

74ALS Series (Continued)



Part No.	Cross Ref.	Pkg.	Description	1	10	100
245850CE	74ALS541N	DIP-20	Octal buffers & line drivers w/ 3-st. outputs	\$.79	\$.67	\$.55
310578CE	74ALS573BM	SOIC-20	Octal D-type transp. latches w/ 3-st. outputs	.59	.448	.336
245868CE	74ALS573BN	DIP-20	Octal D-type transp. latches w/ 3-st. outputs	.43	.36	.29
310623CE	74ALS574AM	SOIC-20	Octal D-type edge-trig. flip-flops w/ 3-st. outputs	.59	.448	.336
245876CE	74ALS574AN	DIP-20	Octal D-type edge-trig. flip-flops w/ 3-st. outputs	.43	.39	.36
310640CE	74ALS645AM	SOIC-20	Octal bus transceivers	.74	.60	.546
245884CE	74ALS645AN	DIP-20	Octal bus transceivers	.98	.83	.67
309796CE	74ALS688N	DIP-20	8-bit identity comparator	2.95	2.39	1.88

Jameco's 3.3 Volt Logic

74LVC Series



For 3.3V power Supplies. This 3.3V logic series is offered in both 8 and 16-bit functions.

Part No.	Cross Ref.	Pkg.	Description	1	10	100
313429CE	74LVC00AD	SOIC-14	Quad 2-input NAND gates	\$.38	\$.299	\$.21
313470CE	74LVC04AD	SOIC-14	Hex inverters	.38	.307	.21
313488CE	74LVC08AD	SOIC-14	Quad 2-input AND gates	.38	.307	.21
313496CE	74LVC14AD	SOIC-14	Hex inverters w/ Schmitt triggers	.38	.307	.21
313517CE	74LVC32AD	SOIC-14	Quad 2-input OR gates	.38	.307	.21
313533CE	74LVC74AD	SOIC-14	Dual D-type flip-flops w/ set/reset	.38	.299	.21
313576CE	74LVC125AD	SOIC-14	Quad bus buffers w/ 3-st.	.27	.216	.185
313613CE	74LVC138AD	SOIC-16	3-to-8 line decoder/demultiplexer	.37	.299	.227
313621CE	74LVC157AD	SOIC-16	2-to-1 line decoder/demultiplexer	.37	.299	.227
313648CE	74LVC244AD	SOIC-20	Octal buffer/drivers w/ 3-st.	.41	.332	.252
313630CE	74LVC245AD	SOIC-20	4-bit sync binary counter	.41	.332	.252
313584CE	74LVC374AD	SOIC-20	Octal D-type flip-flops w/ 3-st.	.41	.332	.252
313541CE	74LVC541AD	SOIC-20	Octal buffer/drivers w/ 3-st.	.41	.332	.305
313461CE	74LVC573AD	SOIC-20	Octal D-type latches w/ 3-st.	.41	.332	.252
313824CE	74LVC574AD	SOIC-20	Octal D-type flip-flops w/ 3-st.	.41	.332	.252
313947CE	74LVC16244AT	TSSOP-48	16-bit buffer/driver w/ 3-st.	.95	.79	.71
313955CE	74LVC16245AT	TSSOP-48	16-bit bus transceiver w/ 3-st.	.95	.79	.71
313963CE	74LVC16244AT	TSSOP-48	16-bit buffer/driver w/ 3-st. w/ damp. res.	.95	.79	.64

74ALVC Series



Ideal for Memory Interfacing. This 3.3V logic series is offered in both 8 and 16-bit functions.

Part No.	Cross Ref.	Pkg.	Description	1	10	100
313980CE	74ALVC00D	SOIC-14	Quad 2-input NAND gates	\$.33	\$.266	\$.202
314309CE	74ALVC00T	TSSOP-14	Quad 2-input NAND gates	.33	.265	.202
314000CE	74ALVC04D	SOIC-14	Hex inverters	.33	.266	.202
314229CE	74ALVC08D	SOIC-14	Quad 2-input AND gates	.33	.266	.202
314341CE	74ALVC08T	TSSOP-14	Quad 2-input AND gates	.33	.265	.20
314237CE	74ALVC32D	SOIC-14	Quad 2-input OR gates	.33	.266	.205
314333CE	74ALVC32T	TSSOP-14	Quad 2-input OR gates	.37	.29	.227
314253CE	74ALVC125	SOIC-14	Quad bus buffers w/ 3-state	.43	.324	.244
314405CE	74ALVC244T	TSSOP-14	Octal buffer/drivers w/ 3-state	.44	.332	.261
314421CE	74ALVC245DW	SOIC-20	Octal bus transceivers w/ 3-state	.44	.336	.262
314430CE	74ALVC245T	TSSOP-20	Octal bus transceivers w/ 3-state	.44	.336	.261
314456CE	74ALVCH16244T	TSSOP-48	16-bit buffer/drivers w/ 3-state	1.04	.84	.64
314499CE	74ALVCH16245T	TSSOP-48	16-bit bus transceivers w/ 3-state	1.04	.84	.64
314528CE	74ALVCH16373T	TSSOP-48	16-bit D-type latches w/ 3-state	1.04	.84	.64
314595CE	74ALVCH16374T	TSSOP-48	16-bit D-type flip-flops w/ 3-state	1.04	.84	.64
314616CE	74ALVCH162244T	TSSOP-48	16-bit buffer/drivers w/ 3-state	1.05	.99	.90
314624CE	74ALVCH162374T	TSSOP-48	16-bit D-type F/F w/ 3-st. w/ damp. res.	1.05	.99	.90
314632CE	74ALVCH164245T	TSSOP-48	16-bit level-shifting transceivers	1.12	.95	.77

4000 Series



Part No.	Cross Ref.	Pkg.	Description	1	10	100
12562CE	CD4001N**	DIP-14	Quad 2-input NOR gates	\$.29	\$.24	\$.19
197261CE	CD4001M	SOIC-14	Quad 2-input NOR gates	.28	.23	.18
12597CE	CD4007N	DIP-14	Dual comp. pair with inverter	.29	.25	.22
12634CE	CD4011N**	DIP-14	Quad 2-input NAND gates	.29	.24	.19
197270CE	CD4011M	SOIC-14	Quad 2-input NAND gates	.22	.208	.193
12677CE	CD4013N**	DIP-14	Dual D flip-flops with set/reset	.35	.25	.22

**20 pcs. in 4000 series IC cabinet kit, pg 33

Thousands of new ICs are in the pipeline for addition and not shown below. Call us to see if you can save 10-20%.

4000 Series (Continued)

DIP  SOIC 

Part No.	Cross Ref.	Pkg.	Description	1	10	100
197288CE	CD4013M	SOIC-14	Dual D flip-flops with set/reset	\$.30	\$.29	\$.22
12706CE	CD4015N*	DIP-16	Dual 4-stage static shift registers	.45	.37	.28
12722CE	CD4016N*	DIP-14	Quad bilateral switches	.28	.24	.18
12749CE	CD4017N*	DIP-16	Decade counter/divider	.39	.35	.31
197296CE	CD4017M	SOIC-16	Decade counter/divider	.56	.45	.33
12773CE	CD4018N	DIP-16	Presetttable divide-by-N counter	.30	.25	.23
12802CE	CD4020N*	DIP-16	14-stage binary/ripple counter	.49	.39	.29
197309CE	CD4020M	SOIC-16	14-stage binary/ripple counter	.62	.49	.36
12829CE	CD4021N	DIP-16	8-stage static shift register	.40	.34	.23
54666CE	CD4022N	DIP-16	Div. by 8-cntr./driver w/ 8-decoded outputs	.32	.27	.203
12845CE	CD4023N*	DIP-14	Triple 3-input NAND gates	.28	.23	.16
12853CE	CD4024N*	DIP-14	7-stage binary counter	.32	.27	.18
353560CE	CD4026N	DIP-16	Decade counter/divider	.62	.52	.45
12888CE	CD4027N*	DIP-16	Dual JK master-slave flip-flops	.27	.22	.16
197317CE	CD4027M	SOIC-16	Dual JK master-slave flip-flops	.41	.35	.26
12909CE	CD4028N	DIP-16	BCD-to-decimal decoder	.29	.22	.19
12925CE	CD4029N	DIP-16	Presetttable up/down counter	.32	.27	.18
197325CE	CD4029M	SOIC-16	Presetttable up/down counter	.36	.325	.277
12950CE	CD4040N*	DIP-16	12-stage binary/ripple counter	.32	.27	.18
197333CE	CD4040M	SOIC-16	12-stage binary/ripple counter	.56	.47	.34
12984CE	CD4042N	DIP-16	Quad clocked D latches	.25	.213	.159
12992CE	CD4043N	DIP-16	Quad NOR R-S latches tri-state	.28	.24	.18
13004CE	CD4044N	DIP-16	Quad 3-state NAND R-S latches tri-state	.33	.28	.21
13012CE	CD4046N*	DIP-16	Micropower phase-locked loop	.30	.27	.23
13039CE	CD4047N	DIP-14	Monostable/astable multivibrator	.30	.25	.22
13055CE	CD4049N**	DIP-16	Hex/buffer/converters (inverting)	.29	.24	.21
197341CE	CD4049M	SOIC-16	Hex/buffer/converters (inverting)	.25	.199	.16
13071CE	CD4050N*	DIP-16	Hex/buffer/converters (non-inverting)	.25	.21	.19
197350CE	CD4050M	SOIC-16	Hex/buffer/converters (non-inverting)	.39	.33	.25
13098CE	CD4051N*	DIP-16	Single 8-channel multi./demultiplexer	.45	.39	.35
197368CE	CD4051M	SOIC-16	Single 8-channel multi./demultiplexer	.25	.21	.16
13119CE	CD4052N	DIP-16	Diff. 4-channel multi./demultiplexer	.41	.332	.252
13127CE	CD4053N	DIP-16	Triple 2-channel multi./demultiplexers	.21	.191	.168
13151CE	CD4060N	DIP-16	14-stage ripple-carry binary	.41	.33	.25
13186CE	CD4066N**	DIP-14	Quad bilateral switches	.35	.25	.19
197376CE	CD4066M	SOIC-14	Quad bilateral switches	.31	.232	.151
13215CE	CD4067N	DIP-24	16-channel analog multi./demultiplexer	.74	.63	.50
13231CE	CD4069N*	DIP-14	Hex inverters (74C04)	.30	.24	.17
197384CE	CD4069M	SOIC-14	Hex inverters (74C04)	.22	.167	.109
13258CE	CD4070N*	DIP-14	Quad exclusive-OR gates (74C86)	.28	.24	.17
87847CE	CD4070M	SOIC-14	Quad exclusive-OR gates	.28	.24	.17
13274CE	CD4071N*	DIP-14	Quad 2-input OR gates	.28	.271	.244
197392CE	CD4071M	SOIC-14	Quad 2-input OR gates	.30	.24	.17
13354CE	CD4081N*	DIP-14	Quad 2-input AND gates	.28	.26	.24
197405CE	CD4081M	SOIC-14	Quad 2-input AND gates	.20	.166	.151
13400CE	CD4093N*	DIP-14	Quad 2-input NANDs Schmitt trigger	.29	.25	.19
197413CE	CD4093M	SOIC-14	Quad 2-input NANDs Schmitt trigger	.30	.26	.19
13426CE	CD4094N	DIP-16	8-stage shift-and-store bus register	.41	.37	.31
13434CE	CD4098N	DIP-16	CMOS/MOS dual mono. multivibrator	.39	.299	.227
13442CE	CD4099N	DIP-16	8-bit addressable latch	.30	.27	.24
13469CE	CD4503N	DIP-16	Tri-state hex buffers (74C367) 80C97	.28	.25	.22

* 10 pcs. in 4000 series IC cabinet kit, below

** 20 pcs. in 4000 series IC cabinet kit, below

♣ Refurbished = Backed by Jameco

4000 Series CMOS IC Kit

Includes:

20-drawer component cabinet (319599CE),
 20 clear plastic drawers (319601CE),
 20 clear dividers (319610CE), pg 273 and
 30 adhesive labels for drawers to identify parts in kit

10 each: CD4015, CD4016, CD4017, CD4020, CD4023, CD4024,
 CD4027, CD4040, CD4046, CD4050, CD4051, CD4069,
 CD4070, CD4071, CD4081, CD4093, CD4511, CD4538, CD4543, CD4584
 20 each: CD4001, CD4011, CD4013, CD4014, CD4049, CD4056

Part No.	Description	Wt. (lbs.)	1	10
84970CE	300 pcs. 4000 series CMOS IC kit	6.1	\$79.95	\$71.95
130403CE	Refill for 84970CE (300 pcs.)	1.4	58.95	52.95



84970CE

4000 Series (Continued)

DIP  SOIC 

Part No.	Cross Ref.	Pkg.	Description	1	10	100
13485CE	CD4510N	DIP-16	BCD up/down counter	\$.39	\$.30	\$.23
13493CE	CD4511N*	DIP-16	BCD to 7-seg. latch/decoder/driver	.69	.59	.49
197421CE	CD4511M	SOIC-16	BCD to 7-seg. latch/decoder/driver	.39	.33	.25
13514CE	CD4512N	DIP-16	8-channel data selector	.45	.365	.277
13522CE	CD4514N	DIP-24	4-bit latch/4-16 line decoder	.94	.79	.64
13549CE	CD4516N	DIP-16	Binary up/down counter	.50	.40	.30
13565CE	CD4518N	DIP-16	Dual BCD up counters	.26	.25	.23
13581CE	CD4520N	DIP-16	Dual binary up counters	.33	.28	.21
13590CE	CD4522N	DIP-16	Program. BCD divide-by-N counter	.30	.26	.19
13602CE	CD4526N	DIP-16	Divide-by-N counter (binary)	.52	.39	.31
13611CE	CD4528N	DIP-16	Dual monostable multivibrators	.86	.73	.55
13653CE	CD4538N*	DIP-16	Dual precision monostable multivibrators	.58	.49	.34
197430CE	CD4538M	SOIC-16	Dual precision monostable multivibrators	.43	.329	.249
13688CE	CD4541N	DIP-14	Oscillator/programmable timer	.23	.20	.15
13696CE	CD4543N*	DIP-16	BCD to 7-segment decoder (LCD)	.59	.45	.29
13709CE	CD4553N	DIP-16	3-digit BCD counter	2.95	2.51	1.88
354600CE	CD4555N	DIP-16	Dual 1-4 decoder/demultiplexers (H.O.)	.31	.274	.227
354618CE	CD4556N	DIP-16	Dual 1-4 decoder/demultiplexers (L.O.)	.46	.349	.265
13768CE	CD4584N*	DIP-14	Hex Schmitt triggers	.39	.35	.29
197448CE	CD4584M	SOIC-14	Hex Schmitt triggers	.28	.24	.18
44257CE	CD40106N	DIP-14	Hex inverters Schmitt trigger (74C14)	.49	.465	.288
354589CE	CD40109N	DIP-16	Quad L to H volt. level shifters	.51	.415	.378

* 10 pcs. in 4000 series IC cabinet kit, below

7400 Series

DIP 

Part No.	Cross Ref.	Pkg.	Description	1	10	100
48979CE	7400N**	DIP-14	Quad 2-input NAND gates	\$.65	\$.55	\$.45
49007CE	7401N	DIP-14	Quad 2-input NAND gates (O.C.)	.59	.57	.54
49015CE	7402N*	DIP-14	Quad 2-input NOR gates	.68	.56	.45
49040CE	7404N**	DIP-14	Hex inverters	.59	.49	.45
49074CE	7405N*	DIP-14	Hex inverters (O.C.)	.69	.54	.38
49091CE	7406N**	DIP-14	Hex inverter buffer/drivers (O.C.)	.52	.45	.40
49120CE	7407N**	DIP-14	Hex buffer/drivers (O.C.)	.40	.37	.32
49146CE	7408N*	DIP-14	Quad 2-input AND gates	.93	.69	.53
49189CE	7410N*	DIP-14	Triple 3-input NAND gates	.40	.36	.25
295777CE	7411N	DIP-16	Triple 3-input AND gates	.99	.89	.80
49402CE	7413N	DIP-14	Dual 4-input NAND gates Schmitt trigger	1.25	1.12	1.01
49437CE	7414N*	DIP-14	Hex inverters Schmitt trigger	.59	.54	.50
49630CE	7416N*	DIP-14	Hex inverter buffer/drivers (O.C.)	.52	.44	.33
49728CE	7417N*	DIP-14	Hex buffer/drivers (O.C. hi-voltage)	.91	.77	.58
50008CE	7420N*	DIP-14	Dual 4-input NAND gates	.56	.52	.45
50083CE	7425N	DIP-14	Dual 4-input NOR gates with strobe	.78	.75	.72
50139CE	7427N	DIP-14	Triple 3-input NOR gates	.68	.58	.43
50198CE	7428N	DIP-14	Quad 2-input NOR buffers	.76	.65	.48
50227CE	7430N*	DIP-14	8-input NAND gate	.56	.48	.36
50235CE	7432N*	DIP-14	Quad 2-input OR gates	.74	.64	.56
50315CE	7438N*	DIP-14	Quad 2-input NAND buffers (O.C.)	.60	.51	.38
50358CE	7440N	DIP-14	Dual 4-input NAND buffers	.55	.47	.35
50374CE	7442N	DIP-16	BCD-to-decimal decoder	1.29	1.02	.84
50403CE	7445N	DIP-16	BCD-to-decimal decoder/driver	1.19	1.05	.91
50411CE	7446N	DIP-16	BCD-to-7 segment decoder/driver (H.O.)	2.09	1.95	1.89
50420CE	7447N*	DIP-16	BCD-to-7 segment decoder/driver (L.O.)	1.49	1.29	.99
50518CE	7470N*	DIP-14	Edge-triggered JK flip-flop	.81	.69	.52
50526CE	7472N	DIP-14	AND gated JK master/slave flip-flop	2.25	1.91	1.43
50534CE	7473N	DIP-14	Dual JK flip-flops with clear	1.33	1.13	.84
50551CE	7474N**	DIP-14	Dual D flip-flops	.59	.49	.39
50577CE	7475N	DIP-16	4-bit bi-stable latch	2.95	2.75	2.49
50593CE	7476N	DIP-16	Dual JK flip-flops with preset and clear	2.95	2.65	2.39
50631CE	7483N	DIP-16	4-bit binary full adder	1.05	.91	.79
50657CE	7485N*	DIP-16	4-bit magnitude comparator	.93	.76	.56
50665CE	7486N	DIP-14	Quad exclusive-OR gates	1.25	.95	.80
50681CE	7489N	DIP-16	64-bit RAM P 50ns	3.49	3.19	2.99
50690CE	7490N	DIP-14	Decade counter	1.49	1.27	.95
50737CE	7492N	DIP-14	Divide-by-12 counter	1.49	1.29	.95
50745CE	7493N	DIP-14	4-bit binary counter	1.49	1.34	1.19
50770CE	7495N*	DIP-14	4-bit parallel-access shift reg. (K155N)	.91	.78	.52

* 10 pcs. in 7400 series IC cabinet kit, pg 34

** 20 pcs. in 7400 series IC cabinet kit, pg 34

Standard Logic and Interface

Color Code Legend
New Sale Lower\$ QtySave

Thousands of new ICs are in the pipeline for addition and not shown below. Call us to see if you can save 10-20%.

7400 Series (Continued)

Part No.	Cross Ref.	Pkg.	Description	1	10	100
50796CE	7497N	DIP-16	Synch. 6-bit binary rate multipliers	\$2.49	\$2.11	\$1.55
49234CE	74107N*	DIP-14	Dual JK flip-flop with clear	.45	.38	<u>.28</u>
49293CE	74116N	DIP-24	Dual 4-bit latches with clear	1.95	1.65	<u>1.25</u>
49322CE	74121N	DIP-14	Monostable multivibrator	1.15	1.05	.91
49357CE	74123N*	DIP-16	Dual retriggerable mono. multivibrator	1.15	1.09	.90
49373CE	74125N	DIP-14	Quad bus buffer tri-state (DM8093N)	1.11	.99	.86
49411CE	74132N*	DIP-14	Quad 2-input NAND Schmitt trigger	1.29	.99	.70
49496CE	74148N	DIP-16	8 to 3 line octal priority encoder	1.24	1.05	<u>.79</u>
49509CE	74150N	DIP-24	16 to 1 line multiplexer	1.95	1.75	1.55
49525CE	74151N*	DIP-16	8-input multiplexer	.65	.55	<u>.41</u>
49550CE	74153N*	DIP-16	Dual 4/1 data selector/multiplexer	.76	.56	.39
49568CE	74154N	DIP-24	4 to 16 line decoder/demultiplexer	2.25	1.95	1.75
49605CE	74157N*	DIP-16	Quad 2/1 data selector	.88	.72	<u>.51</u>
49648CE	74160N*	DIP-16	Decade counter with asynch. clear	.45	.40	.36
49664CE	74161N	DIP-16	Synchronous 4-bit counter w/ direct clear	.70	.63	.50
49672CE	74163N	DIP-16	Fully synchronous 4-bit counter	.81	.69	<u>.52</u>
49681CE	74164N	DIP-14	8-bit serial shift register	.85	.72	<u>.54</u>
49699CE	74165N	DIP-16	8-bit serial shift register, parallel load	.99	.84	<u>.63</u>
49779CE	74174N*	DIP-16	Hex D-type flip-flop with clear	.99	.84	<u>.63</u>
49795CE	74175N*	DIP-16	Quad D-type flip-flop with clear	.85	.72	<u>.54</u>
49832CE	74180N	DIP-14	9-bit odd/even parity generator/checker	2.89	2.46	<u>1.84</u>
49841CE	74181N	DIP-24	Arithmetic logic unit/function generator	3.29	2.96	2.66
49883CE	74189N	DIP-16	64-bit RAM tri-state (DM8599N)	3.39	2.89	<u>2.17</u>
49904CE	74191N	DIP-16	Binary up/down counter	1.85	1.57	<u>1.18</u>
49912CE	74192N	DIP-16	Decade up/down counter with clear	3.69	3.39	3.19
49939CE	74193N	DIP-16	Binary up/down counter with clear	1.85	1.59	1.45
49955CE	74194N	DIP-16	4-bit bi-directional shift register	1.59	1.35	<u>1.01</u>
49963CE	74195N	DIP-16	4-bit parallel-access shift register	1.65	1.40	<u>1.05</u>
50171CE	74279N*	DIP-16	Quad set-reset latch	1.79	1.52	<u>1.14</u>
88225CE	SDLD001A	—	Texas Instruments TTL Data Book	34.95	31.49	29.95

*10 pcs. in 7400 series IC cabinet kit, below

7400 Series IC Kit

Includes:

- 20-drawer component cabinet (319599CE),
- 20 clear plastic drawers (319601CE),
- 20 clear dividers (319610CE), pg 273 and
- 30 adhesive labels for drawers to identify parts in kit

10 each: 7402, 7405, 7408, 7410, 7414, 7416, 7417, 7420, 7430, 7432, 7438, 7447, 7470, 7485, 7495, 74107, 74123, 74132, 74151, 74153, 74157, 74160, 74174, 74175, 74279

20 each: 7400, 7404, 7406, 7407, 7474

Part No.	Description	Wt. (lbs.)	1	10
84953CE	350 pcs. 7400 IC kit	6.2	\$149.95	\$134.95

74C Series

Part No.	Cross Ref.	Pkg.	Description	1	10	100
44222CE	74C00N	DIP-14	Quad 2-input NAND gate	\$1.15	\$.98	<u>\$.73</u>
44231CE	74C04N	DIP-14	Hex inverter (CD4069)	1.05	.89	<u>.67</u>
44257CE	74C14N	DIP-14	Hex inverter Schmitt trigger (CD40106)	.49	.465	.288
44441CE	74C74N	DIP-14	Dual D flip-flop	1.69	1.44	1.08
44361CE	74C221N	DIP-16	Dual monostable multivibrator	3.69	3.19	2.50
13469CE	74C367N	DIP-16	Hex buffer tri-state (80C97/CD4503)	.28	.25	.22
44396CE	74C373N	DIP-20	Octal D-type flip-flop with clear tri-state	3.85	3.11	2.44
44409CE	74C374N	DIP-20	Octal D-type flip-flop tri-st. (INS82C06N)	2.49	2.12	1.59
44564CE	74C922N	DIP-18	16-key keyboard encoder (INS8245N)	7.05	6.79	6.19
44572CE	74C923N	DIP-20	20-key keyboard encoder (INS8246N)	6.29	5.85	5.55
44581CE	74C925N	DIP-16	4-digit CTR w/ MUX D segment driver	15.59	13.25	9.95
44599CE	74C926N	DIP-18	4-digit CTR w/ MUX D segment driver	10.49	9.49	8.59

74S Series

Part No.	Cross Ref.	Pkg.	Description	1	10	100
48531CE	74S188N	DIP-16	256-bit (32 x 8) PROM O.C. (27S18)	\$4.39	\$3.95	\$3.45
48557CE	74S189N	DIP-16	64-bit (16 x 4) RAM tri-state (27S03)	3.99	3.90	3.86
48696CE	74S287N	DIP-16	1k-bit (256 x 4) PROM tri-state (TBP24S10)	9.85	9.03	7.80
48717CE	74S288N	DIP-16	256-bit (32 x 8) PROM tri-st. (TBP18S030N)	7.39	6.39	5.49

74S Series (Continued)

Part No.	Cross Ref.	Pkg.	Description	1	10	100
48805CE	74S387N	DIP-16	1k-bit (256 x 4) PROM O.C. (TBP24SA10N)	\$3.09	\$2.79	\$2.55
52513CE	74S428N	DIP-28	System contr./bus driver (8228)	3.69	3.19	2.36
48864CE	74S472N	DIP-20	4k-bit (512 x 8) PROM tri-st. (TBP28S42N)	12.95	11.65	10.49
48910CE	74S571N	DIP-16	2k-bit (512 x 4) PROM tri-st. (AM27S13)	5.69	5.45	4.95
48928CE	74S573N	DIP-18	4k-bit (1024 x 4) PROM tri-st. (53S441J)	3.39	2.89	2.59

Dallas Semiconductor DIP SOIC

Part No.	Product No.	Pkg.	Description	1	10	100
114198CE	DS1210	DIP-8	Nonvolatile controller chip	\$4.19	\$3.37	\$2.27
114219CE	DS1213C	DIP-28	SmartSocket 64k/256k	19.99	15.55	12.25
133410CE	DS1216C	DIP-28	Smartwatch/RAM 64k/256k	31.89	27.69	19.99
114331CE	DS1232	DIP-8	Micromonitor chip	2.05	1.56	1.21
133444CE	DS1286	DIP-28	Watchdog timekeeper (50-Byte RAM)	23.95	18.25	12.70
76646CE	DS1287	DIP-24	Real time clock with RAM (MC146818A)	7.25	6.15	4.59
176778CE	DS1302	DIP-8	Trickle charge time keeping IC	2.75	2.10	1.28
114374CE	DS1387	DIP-24	RAMified real time clock 4k x 8	8.59	7.30	<u>5.48</u>
114382CE	DS1620	DIP-8	Digital thermometer and thermostat	6.29	5.05	3.49
245500CE	DS1705ESA	SOIC-8	3.3V and 5V micromonitor w/ watchdog	1.85	1.57	<u>1.18</u>
282749CE	DS1708ESA	SOIC-8	3.3V and 5V micromonitor	2.05	1.55	1.19
133452CE	DS12887	DIP-24	Real time clock chip	8.15	6.25	4.15
299997CE	DS12887A	DIP-24	Real time clock chip	8.15	6.22	4.15
114403CE	DS80C320-MCG	DIP-40	High speed micro 25MHz	13.15	10.42	6.25

♣ Pull = Extra Savings

MPU Supervisory

Package (see pg 35)

Part No.	Mfr.	Cross Ref.	Pkg.	Description	1	10	100
106219CE	+	MAX690CPA	DIP-8	Microprocessor watchdog/battery	\$5.99	\$5.05	\$3.13
106227CE	+	MAX691CPE	DIP-16	Microprocessor watchdog/battery	6.25	4.21	<u>3.16</u>
288403CE	+	MAX693CPE	DIP-16	Microprocessor watchdog/battery	6.49	3.86	3.22
297684CE	MAX	MAX694CPA	DIP-8	Microprocessor supervisory circuit	6.59	3.86	3.26
297748CE	MAX	MAX695CPE	DIP-16	Low cost MPU supervisory circuit	7.15	5.82	5.24
312418CE	MAX	MAX699CPA	DIP-8	Low cost power on reset & watchdog	4.15	3.46	3.28
243627CE	+	MAX705CPA	DIP-8	MPU sup. circuit, watchdog, 4.65VCC	3.95	3.36	<u>2.52</u>
243635CE	+	MAX705CSA	SOIC-8	MPU sup. circuit, watchdog, 4.65VCC	4.55	3.85	<u>2.89</u>
297705CE	MAX	MAX706CPA	DIP-8	MPU sup. circuit, watchdog, 4.4VCC	4.99	3.99	3.59
251774CE	MAX	MAX707CPA	DIP-8	MPU sup. circ., watchdog, reset, 4.65VCC	4.05	3.44	<u>2.58</u>
251758CE	MAX	MAX707CSA	SOIC-8	MPU sup. circ., watchdog, reset, 4.65VCC	3.75	3.19	<u>2.39</u>
298020CE	+	MAX734CPA	DIP-8	12V, 120mA flash memory prog.	3.69	3.49	3.32
298046CE	+	MAX734CSA	SOIC-8	12V, 120mA flash memory prog.	2.55	2.21	2.07
266861CE	+	MAX809T	SOT-23	3-pin MPU push-pull /RESET circuit	.50	.38	.29
245391CE	+	MAX810S	SOT-23	3-pin MPU push-pull RESET circuit	.75	.71	.66
245497CE	MAX	MAX813LSA	SOIC-8	Low cost MPU supervisory circuit	3.05	2.59	<u>1.94</u>
106260CE	+	MAX1232CPA	DIP-8	Microprocessor monitor	3.09	2.45	1.67
282677CE	+	DS1233-5	TO-92	4.75V CPU supervisory, pushbutton reset	1.15	1.05	.94
290221CE	+	DS1233D-5	TO-92	4.75V CPU supervisory	1.25	1.16	1.11
282651CE	+	DS1233M-5	TO-92	5V Freescale CPU supervisory	1.15	1.00	.90
282685CE	+	DS1233-10	TO-92/4	4.5V CPU supervisory, pushbutton reset	1.25	1.10	.99
313971CE	ANA	AP1701DW	SOT-23	3-pin MPU push-pull /RESET	.72	.545	.40
313939CE	ANA	AP1702DW	SOT-23	3-pin MPU push-pull RESET	.54	.325	.305
310316CE	MAX	DS1708SESA	SOIC-8	3.3V micromonitor	1.85	1.47	1.38
298089CE	MAX	DS1811-5	TO-92	4.75V econoreset w/ open drain output	.99	.69	.60
298118CE	MAX	DS1811-10	TO-92	4.5V econoreset w/ open drain output	1.01	.68	.63
298100CE	MAX	DS1811-15	TO-92	4.25V econoreset w/ open drain output	.99	.75	.73

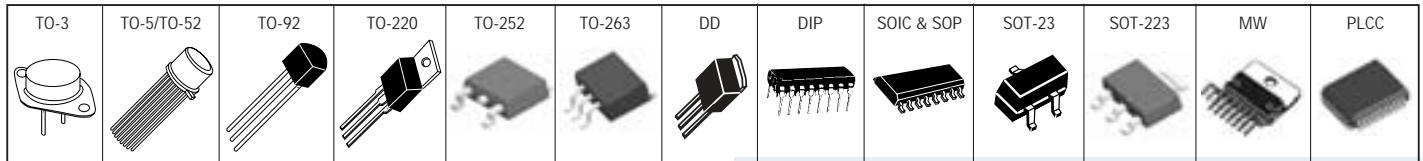
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Manufacturer Cross Reference Table

Manufacturer	Code	Manufacturer	Code	Manufacturer	Code	Manufacturer	Code	Manufacturer	Code
Analog Devices	ADI	Linear Technology	LTC	Microchip	MCH	On Semi	ON	Texas Instruments	TI
Anachip	ANA	Maxim Corporation	MAX	National Semiconductor	NSC	ST Micro	ST	Jameco Value Offering	+

Power Management

Package (see above)

Part No.	Mfr.	Cross Ref.	Pkg.	Description	1	10	100
291670CE	+	MAX712CPE	DIP-16	NiCD/NiMH battery fast chrg controller	\$6.99	\$5.36	\$5.04
312821CE	+	BQ2003S	SOIC-16	Fast Charge IC	4.49	3.65	2.86
312848CE	TI	BQ2004PN	DIP-16	NiMH/NiCd switchmode chrg mgmt w/ neg dV	4.49	3.79	3.66
312830CE	TI	BQ2004SN	SOIC-16	NiMH/NiCd switchmode chrg mgmt w/ neg dV	4.49	3.79	3.72
312901CE	TI	BQ2010SN-D107	SOIC-16	Gas Gauge IC	6.29	5.82	4.36
312899CE	TI	BQ2013HSN-A514	SOIC-16	Gas Gauge IC	6.75	6.58	6.25
312856CE	TI	BQ2014SN-D120	SOIC-16	NiMH/NiCd gas gauge w/ 1-wire (DQ) I/F	7.19	6.84	6.49
312928CE	TI	BQ2018TS-E1	TSSOP-8	Rechargeable battery power monitor	3.89	3.38	3.21
312936CE	TI	BQ2019PW	TSSOP-8	Rechargeable battery power monitor	3.99	3.46	3.29
312881CE	TI	BQ2040SN-D111	SOIC-16	Li-Ion/NiMH/NiCd gas gauge w/ smbus	7.19	6.84	6.50
312961CE	+	UC3906N	DIP-16	Linear lead acid battery charger	5.15	4.89	4.63
312944CE	TI	BQ24004PWP	TSSOP-20	Li-Ion battery charger	3.69	3.20	3.05
241808CE	+	ICL7665SCPA	DIP-8	2-16V voltage detector	2.45	2.20	1.38
241816CE	+	ICL7673CPA	DIP-8	Auto battery backup switch, 2.5V to 15V	1.05	.93	.75

+ Jameco Value Offering

RS-232 Drivers/Receivers

SSOP

Other packages (see above)

Part No.	Mfr.	Cross Ref.	Pkg.	Description	1	10	100
142535CE	+	HIN202CP	DIP-16	+5V RS-232 trans. requires 0.1µF caps	\$2.65	\$2.10	\$1.36
244232CE	+	MAX202CSE	SOIC-16	+5V RS-232 trans. w/ 0.1µF ext. caps	1.55	1.25	1.15
244241CE	+	MAX202EPE	DIP-16	+5V RS-232 transceivers	1.13	.99	.88
244259CE	+	MAX202ESE	SOIC-16	+5V RS-232 trans. w/ 0.1µF ext. caps	1.13	.99	.88
299794CE	MAX	MAX207CWG	SOIC-24	RS-232 transceivers w/ 0.1µF ext. cap	3.65	2.77	2.00
282790CE	+	MAX211CAI	SSOP-28	+5V RS-232 trans. w/ 0.1µF ext. caps	6.59	5.04	3.46
312215CE	+	MAX211ECAI	SSOP-28	+5V RS-232 trans., ±15kV ESD	8.05	5.25	4.14
291215CE	+	MAX222CCPN	DIP-18	+5V multichannel RS-232 drivers/recvr	3.49	3.39	3.18
291303CE	+	MAX222CWN	SOIC-18	+5V multichannel RS-232 drivers/recvr	3.89	3.09	2.41
24811CE	+	MAX232CPE*	DIP-16	Dual RS-232 receiver/transmitter	2.19	1.85	1.45
318959CE	MAX	MAX232CPE	DIP-16	Dual RS-232 receiver/transmitter	2.89	1.77	1.49
106147CE	+	MAX232CWE	SOIC-16	+5V dual RS-232 trans./receiver	2.75	2.10	1.36
256401CE	+	MAX232DR	SOIC-16	Dual EIA-232 driver/receiver	.76	.66	.63
106155CE	+	MAX232DEPE	SOIC-14	+5V dual RS-232 (-40°C to +85°C)	3.29	2.52	1.63
106163CE	+	MAX233CPP	DIP-20	+5V multichannel RS-232 driver/recr.	6.19	4.99	4.66
106171CE	+	MAX235CPG	DIP-24	+5V five RS-232 driver/receiver	13.39	10.51	6.75
106180CE	+	MAX238CNG	DIP-24	+5V quad RS-232 driver/receiver	6.29	4.79	3.28
276883CE	+	MAX323CDWR	SOIC-20	True 3V-5.5V RS-232 trans. w/ autoshtdwn	1.69	1.61	1.45
193691CE	+	DS1488D	SOIC-14	Quad line driver RS-232 (75188N)	.41	.33	.25
23157CE	+	DS1488N*	DIP-14	Quad line driver RS-232 (75188N)	.27	.23	.17
16361CE	+	DS14C88N	DIP-14	Quad CMOS line driver RS-232	.57	.50	.41
23181CE	+	DS1489N*	DIP-14	Quad line receiver RS-232 (75189N)	.23	.215	.20
16379CE	+	DS14C89N	DIP-14	Quad CMOS line receiver RS-232	1.00	.73	.55
252128CE	+	MAX3221CAE	SSOP-16	RS-232 transceiver w/ auto shutdown	2.29	1.99	1.65
277042CE	+	MAX3221CAE	SSOP-16	True 3V-5.5V RS-232 trans. w/ autoshtdwn	2.65	2.27	2.13
299760CE	+	MAX3222CAP	SSOP-20	True RS-232 low power trans.	3.35	2.69	1.83
276963CE	+	MAX3222CDBR	SSOP-20	3V-5.5V, low pwr RS-232 trans.	2.09	1.94	1.74
276859CE	+	MAX3232CDR	SOIC-16	3V-5.5V, true RS-232 transceiver	1.69	1.61	1.45
276867CE	+	MAX3232CSE	SOIC-16	3V-5.5V, true RS-232 transceiver	3.69	2.94	1.88
276795CE	+	MAX3238CDBR	SSOP-28	3V-5.5V, true RS-232 w/ autoshtdwn	1.85	1.73	1.55
276824CE	+	MAX3238IDBR	SSOP-28	3V-5.5V, true RS-232 w/ autoshtdwn	2.19	1.96	1.77
276761CE	+	MAX3243CDWR	SOIC-28	True 3V-5.5V RS-232 trans. w/ autoshtdwn	1.37	1.27	1.14
276779CE	+	MAX3243IDWR	SOIC-28	True 3V-5.5V RS-232 trans. w/ autoshtdwn	1.69	1.61	1.45
299911CE	+	DS14C232CM	SOIC-16	Low pwr TIA/EIA 232 dual driver/recvr	1.05	.94	.86
235301CE	+	DS14C232CN	DIP-16	Low pwr +5V TIA/EIA 232 dual driver/recvr	1.09	.91	.86

* 10 pcs. in Linear series IC cabinet kit, pg 40

+ Jameco Value Offering

RS-232 Drivers/Receivers (Continued)

Package (see above)

Part No.	Mfr.	Cross Ref.	Pkg.	Description	1	10	100
277982CE	+	SN75185DW	SOIC-20	Multiple RS-232 drivers/receivers	\$.79	\$.60	\$.45
256081CE	+	SN75185N	DIP-20	Multiple RS-232 drivers/receivers	.69	.60	.50
245366CE	+	SN75C188D	SOIC-14	Quad low power line driver	.61	.52	.39
23181CE	+	SN75189N	DIP-14	Quad line rec. RS-232 (DS1489N)	.23	.215	.20
193703CE	+	SN75189D	SOIC-14	Quad line rec. RS-232 (DS1489D)	.50	.30	.15
245374CE	+	SN75C189D	SOIC-14	Quad low power line receiver	\$.84	.62	.53
278205CE	+	TL145406N	DIP-16	Triple RS-232 drivers/receivers	.97	.88	.73
25099CE	+	MC145406P	DIP-16	RS232-C/V.28 driv./rec. (CMOS) (75C1406N)	1.95	1.75	1.59

+ Jameco Value Offering

RS-422/485 Receivers

Package (see above)

Part No.	Mfr.	Cross Ref.	Pkg.	Description	1	10	100
299815CE	LTC	LTC485CS8	SOIC-8	RS-485 low power interface trans.	\$2.15	\$1.84	\$1.73
299807CE	LTC	LTC485CN8	DIP-8	RS-485 low power interface trans.	2.09	1.39	1.15
276605CE	MAX	MAX490CSA	SOIC-8	Low pwr, slew-rate limited RS-485/422	2.55	1.95	1.25
276576CE	MAX	MAX490CPA	DIP-8	Low pwr, slew-rate limited RS-485/422	2.55	2.05	1.83
276550CE	MAX	MAX491CPD	DIP-14	Low pwr, slew-rate limited RS-485/422	2.55	2.05	1.85
311837CE	MAX	MAX1480BEPI	DIP-28	Complete iso. RS485-422 data interface	28.75	22.29	20.72
244179CE	ADI	ADM1485JN	DIP-8	RS-485 differential bus transceivers	2.05	1.83	1.65
244187CE	ADI	ADM1485JR	SOIC-8	RS-485 differential bus transceivers	1.59	1.50	1.25
235310CE	+	DS1487N	DIP-8	Low pwr RS-485 1/4 unit load recvr.	1.49	1.12	1.02
244195CE	+	MAX1487CPA	DIP-8	RS-485/RS-422 low-power transceivers	2.39	1.99	1.31
244208CE	+	MAX1487CSA	SOIC-8	RS-485/RS-422 low-power trans.	\$2.35	2.15	1.99
39571CE	+	AM26LS30	DIP-16	Dual diff RS422 party line Qd RS423 line driv.	2.39	2.05	1.76
39589CE	+	AM26LS31CN	DIP-16	Quad diff line driver	.61	.54	.43
243555CE	+	AM26LV31CD	SOP-16	RS-422 quad differential line trans	.72	.65	.63
39600CE	+	AM26LS32CN	DIP-16	Quad diff line receiver RS422/423	.64	.57	.429
272217CE	+	DS26LS32ACN	DIP-16	Quad diff line receiver	.66	.50	.38
242051CE	+	AM26LV32CD	SOP-16	RS-422 quad differential line receivers	.92	.87	.82
252427CE	+	MC3486D	SOIC-16	Quad EIA-422/423 line rec. w/ 3-st. outputs	.72	.61	.46
25232CE	+	MC3486P	DIP-16	Quad EIA-422/423 line rec. w/ 3-st. outputs	.66	.56	.38
252961CE	+	MC3487D	SOIC-16	Quad EIA-422 differential line driver	.46	.39	.29
25259CE	+	MC3487P	DIP-16	Quad EIA-422 line driver w/ 3-state outputs	.66	.56	.38
298142CE	NSC	DS3691M	SOIC-16	RS-422/423 line drivers w/ 3-state outputs	1.99	1.48	1.11
298134CE	NSC	DS3691N	DIP-16	RS-422/423 line drivers w/ 3-state outputs	1.10	.99	.83
144039CE	NSC	DS3695N	DIP-8	Multipoint RS-485/422 trans. w/ 3-st. outputs	1.75	1.32	.99
235336CE	NSC	DS3696N	DIP-8	Multipoint RS-485/422 trans./repeaters	2.29	1.95	1.46
299671CE	NSC	DS8921AN	DIP-8	RS-422 differential line driver/receiver pair	1.59	.98	.86
298169CE	NSC	DS8921M	SOIC-8	RS-422 differential line driver/receiver pair	1.45	1.10	.83
299701CE	NSC	DS8922AM	SOIC-16	RS-422 dual differential line driver/receiver pair	1.59	1.19	.90
299719CE	NSC	DS8922AN	DIP-16	RS-422 dual differential line driver/receiver pair	1.59	1.19	.89
299727CE	NSC	DS8923AM	SOIC-16	RS-422 quad differential line driver/receiver pair	1.65	1.22	.92
309753CE	NSC	DS8923AN	DIP-16	Dual RS-422 diff. line driver/rec. pairs	1.65	1.25	.93
235344CE	NSC	DS36C278N	DIP-8	Low pwr multipoint EIA RS-485 transceiver	2.69	2.25	2.15
241980CE	TI	SN75LBC172N	DIP-16	RS-485 differential line drivers	3.95	3.89	3.57
241998CE	TI	SN75LBC173N	DIP-16	RS-422/RS-423/RS-485 diff. line rec.	\$3.05	2.35	2.30
50948CE	+	SN75174N	DIP-16	Quad diff. RS-422 line driver w/ 3-st. out	.76	.74	.63
245340CE	+	SN75175D	SOIC-16	Quad differential line receivers	\$.71	.59	.50
50956CE	+	SN75175N	DIP-16	Quad diff. EIA 422A/423A line rec. w/3-st. out	.72	.56	.45
243707CE	TI	SN75LBC175D	SOIC-16	Quaduple low power diff. line receiver	1.89	1.61	1.20
243715CE	TI	SN75LBC175N	DIP-16	RS-422/RS-423/RS-485 diff. line rec.	2.65	2.47	2.32
50964CE	+	SN75176BN	DIP-8	Differential bus transceiver	.65	.55	.45
251053CE	TI	SN75LBC176AD	SOIC-8	Differential bus transceiver	3.09	2.71	2.53
244136CE	TI	SN75LBC176AP	DIP-8	RS-485 diff. bus transceivers	1.75	1.64	1.57
251846CE	TI	SN75LBC176D	SOIC-8	Differential bus transceiver RS485	1.37	1.16	.87

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Interface – Analog (Continued)

Color Code Legend
New Sale Lower\$ QtySave

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RS-422/485 Receivers (Continued)

Package (see pg 37)

Part No.	Mfr.	Cross Ref.	Pkg.	Description	1	10	100
243723CE	TI	SN75LBC176P	DIP-8	RS-485 differential bus trans.	\$2.15 \$1.59	\$1.42	<u>\$1.06</u>
235387CE	NSC	DS96172CN	DIP-16	RS-485/RS-422 quad diff. line drivers	3.59	3.26	2.96
235361CE	NSC	DS96173CN	DIP-16	RS-485/RS-422 quad diff. line rec.	2.09	1.89	1.71
235395CE	NSC	DS96174CN	DIP-16	RS-485/RS-422 quad diff. line drivers	2.45	2.05	<u>1.54</u>
235379CE	NSC	DS96175CN	DIP-16	RS-485/RS-422 quad diff. line rec.	1.99	1.40	1.27
235408CE	NSC	DS96176CN	DIP-8	RS-485/RS-422 diff. bus transceivers	1.79	1.59	1.19

Blue Part No. = Limited Quantity Available

Interface Series

Package (see pg 37)

Part No.	Mfr.	Cross Ref.	Pkg.	Description	1	10	100
310498CE	TI	XTR101AP	DIP-14	Low-drift precision 2-wire trans.	\$13.19	\$12.00	\$10.92
310501CE	TI	XTR101AU	SOIC-16	Low-drift precision 2-wire trans.	16.25	15.43	14.66
312021CE	TI	XTR105AP	DIP-14	4-20mA current transmitter	7.29	7.19	6.91
310703CE	ST	L294	MW-11	Switch mode solenoid driver	3.05	2.63	2.35
310738CE	ST	L295	MW-15	Dual switch mode solenoid driver	6.19	5.75	5.49
116206CE	+	TC426CPA	DIP-8	Dual 1.5A hi spd pwr MOSFET driver	1.03	.95	.94
245593CE	+	TC426EOA	SOIC-8	Dual 1.5A hi spd pwr MOSFET driver	1.15	.94	.89
242077CE	+	TC428CPA	DIP-8	Dual MOSFET 1.5A driver	.95	.90	.86
242085CE	+	MAX626CPA	DIP-8	Dual 1.5A-peak low-side MOSFET driver ....	.99	.95	.90
242093CE	+	MAX627CPA	DIP-8	Dual MOSFET driver	1.05	.99	.94
246692CE	+	LT1030N	DIP-14	Quad low power line driver	1.12	.95	<u>.71</u>
310754CE	+	TC1426COA	SOIC-8	1.2A dual high-speed MOSFET drivers ....	.68	.66	.64
310771CE	+	TC1426CPA	DIP-8	1.2A dual high-speed MOSFET drivers ....	.88	.68	.63
12239CE	+	CA3161E	DIP-16	BCD to 7-seg. decoder driver	1.99	1.75	1.55
310480CE	ON	MC33152D	SOIC-8	Dual high-speed MOSFET drivers	1.15	1.07	.85
310439CE	ON	MC33152P	DIP-8	Dual high-speed MOSFET drivers	1.15	1.07	.85
25216CE	NSC	MC3479P	DIP-16	Biphase stepper motor driver	3.99	3.39	2.69
24230CE	NSC	LM3914N	DIP-18	Bar-graph display driver	2.55	2.15	1.99
300003CE	NSC	LM3914N-1	DIP-18	Dot/bar display driver	1.65	1.54	1.38
246625CE	NSC	LM3914V	PLCC-20	Dot/bar display driver	2.35	2.00	<u>1.50</u>
24256CE	NSC	LM3915N	DIP-18	3 dB steps bar-graph disp. driver	2.49	1.99	1.55
24272CE	NSC	LM3916N	DIP-18	VU meter display driver	2.19	1.65	1.22
291320CE	+	MIC4420CM	SOIC-8	6A-peak low-side MOSFET driver	1.05	1.03	.90
291434CE	+	MIC4420CN	DIP-8	6A-peak low-side MOSFET driver	1.29	1.15	1.05
251029CE	+	TC4420COA	SOIC-8	6A high speed MOSFET drivers	1.45	1.25	1.18
310965CE	+	TC4422CPA	DIP-8	9A high-speed MOSFET drivers	2.49	1.62	1.52
310800CE	+	TC4422EPA	DIP-8	9A high-speed MOSFET drv, extended temp.	2.45	1.54	1.44
291590CE	+	MIC4427CM	SOIC-8	Dual 1.5A-peak low-side MOSFET drv	1.15	1.05	.94
312207CE	+	MIC4429CM	SOIC-8	6A-peak low-side MOSFET driver	.99	.87	.82
291645CE	+	MIC4429CN	DIP-8	6A-peak low-side MOSFET driver	1.45	1.28	1.21
243379CE	+	MM5453N	DIP-40	Liquid crystal display driver	3.65	2.80	2.16
314691CE	+	ICL7136CPL	DIP-40	3 1/2 digit LCD LP dsply driver	4.59	3.68	2.99
313453CE	+	ICM7211AMPL	DIP-40	4-digit LCD display driver	2.89	2.62	2.39
313437CE	+	ICM7218AIJ1	DIP-28	8-digit LED μ P multi display decoder drv	4.95	3.86	3.45
313445CE	+	ICM7218BIJ1	DIP-28	8-digit LED μ P multi display decoder drv	7.39	7.04	6.68
312160CE	MAX	MAX7219CNG	SO-24	Serially interfaced 8-digit LED display drv	9.95	7.59	5.06
312178CE	MAX	MAX7219CWG	SO-24	Serially interfaced 8-digit LED display drv	9.09	7.59	6.15
313322CE	+	ICM7228AIP1	DIP-28	8-digit μ P compatible LED dsply decoder drv	4.45	3.71	3.15
241875CE	+	FAN8082	DIP-8	Bi-directional, 18V DC motor driver	.70	.52	.47
241867CE	+	FAN8200	DIP-14	Bi-directional, 2-ch, 9V stepper motor drv	.79	.68	.64
213170CE	+	UA9636A	DIP-8	Dual diff. line receiver (MC3488A)	.34	.31	.28
256727CE	TI	SN65LVDS31D	SOIC-16	High speed differential line driver	2.95	2.51	<u>1.88</u>
256719CE	TI	SN65LVDS048AD	SOIC-16	LVDS quad differential line receiver	3.15	2.72	2.55
272188CE	TI	SN65LVDS050D	SOIC-16	High speed diff. line driver/receiver	3.99	3.48	3.13
241824CE	+	MC14489BP	DIP-20	5V LED display/lamp driver	4.29	3.75	3.52
287831CE	+	MC14489BDW	SOG-20	5V LED driver, 5 digit / 25 lamps	3.39	3.19	3.05
50884CE	+	SN75154N	DIP-16	Quad line receiver	.75	.57	<u>.428</u>
277907CE	+	SN75172N	DIP-16	Quad differential line driver	1.15	.91	.69
245331CE	+	SN75173D	SOIC-16	Quad differential line receiver	1.15	.98	<u>.73</u>
277958CE	+	SN75179BD	SOIC-8	Differential driver and receiver pair	.95	.79	.65
277940CE	+	SN75179BP	DIP-8	Differential driver and receiver pair	.67	.61	.52
278133CE	TI	SN75LBC180AN	DIP-14	Low pwr diff. line driver/receiver pairs	2.15	1.94	1.75
277966CE	+	SN75182N	DIP-14	Dual differential line receivers	.79	.66	.55
277974CE	+	SN75183N	DIP-14	Dual differential line drivers	1.19	.95	.71
51027CE	+	SN75451AN	DIP-8	Dual peripheral AND drivers	.39	.30	.23
51035CE	+	SN75452N	DIP-8	Dual peripheral NAND drivers	.45	.23	.21

Blue Part No. = Limited Quantity Available

Jameco Value Offering

Interface Series (Continued)

Package (see pg 37)

Part No.	Mfr.	Cross Ref.	Pkg.	Description	1	10	100
278002CE	+	SN75453BP	DIP-8	Dual peripheral OR drivers	\$.39	\$.30	\$.23
277317CE	+	SN75454BP	DIP-8	Dual peripheral NOR drivers	.39	.30	.23
277430CE	+	SN75462P	DIP-8	Dual peripheral NAND drivers	.62	.47	.36
278037CE	+	SN75471P	DIP-8	Dual peripheral AND driver	.63	.47	.31
278053CE	+	SN75472P	DIP-8	Dual peripheral NAND driver	.54	.42	.37
278061CE	+	SN75477P	DIP-8	Dual peripheral NAND driver	.56	.44	.34
51131CE	+	SN75492P	DIP-14	Hex digit driver (492)	3.45	3.00	2.85
310746CE	+	SN751177N	DIP-16	Dual differential drivers/receivers	2.75	2.39	2.32
253083CE	+	SN751730N	DIP-16	Triple line driver/receiver	2.15	1.83	<u>1.38</u>

Jameco Value Offering



Digital Interface ICs

DIP

Part No.	Product No.	Pkg.	Description	1	10	50
323969CE	EDEF7609	DIP-8	Serial stepper motor controller	\$11.99	\$11.39	\$10.49
323977CE	EDEF7639/P	DIP-8	Servo controller	9.99	9.49	8.49
323993CE	EDEF7649	DIP-8	Five pin output controller	9.99	9.49	8.49
171951CE	EDE702	DIP-18	Serial LCD interface	8.99	7.65	6.75
321710CE	EDE707	DIP-28	Octal 7-segment LED display decoder	8.99	7.65	6.75
321728CE	EDE747	DIP-24	7-segment decoder/driver	5.99	4.65	4.15
321701CE	EDE1188	DIP-28	8x8 matrix universal keypad encoder	8.89	7.65	6.75
171969CE	EDE1144	DIP-18	Keypad encoder	6.99	5.65	5.00
141532CE	EDE1200	DIP-18	Unipolar stepper motor controller	8.29	6.90	5.90
157526CE	EDE1204	DIP-18	Bipolar stepper motor controller	8.29	6.90	5.90
321736CE	EDE2008	DIP-18	Pushbutton debouncer w/ 8-independent chan	5.99	4.65	4.15
321744CE	EDE2108A	DIP-20	One-of-eight latch single channel	5.99	5.09	4.15
321752CE	EDE2108D	DIP-20	One-of-eight latch act/deact	5.99	5.09	4.15
321761CE	EDE2208/P	DIP-18	8-pushbutton momentary to toggle	5.69	3.99	3.79
324005CE	EDE8744	DIP-28	16-key serial keypad and 2x40 LCD driver	13.89	11.79	10.65

5000 Series & Clock Chips

DIP

SOIC

Part No.	Cross Ref.	Pkg.	Description	1	10	50
32803CE	TCM5089N	DIP-16	Integrated tone dialer chip	\$5.99	\$5.39	\$4.59
26091CE	MM5321N	DIP-16	TV camera synchronous generator	4.75	4.31	3.91
26171CE	MM5450N	DIP-40	34-segment LED display driver	2.79	2.60	2.30
86799CE	LM555CM	SOIC-8	Timer (NE555D)	.35	.30	.25
27422CE	LM555CN	DIP-8	Timer (MC1455P/NE555V)	.29	.23	.20
126797CE	LM555CN	DIP-8	CMOS 555 timer	.54	.49	.44
24328CE	LM556N	DIP-14	Dual 555 timer	.88	.65	.48
243395CE	DP8573AN	DIP-24	5V real time clock chip	12.15	10.70	9.28
26201CE	MM58167AN	DIP-24	Microprocessor real time clock	2.89	2.63	2.39
95530CE	RTC72421B	DIP-18	Real time clock module	6.79	5.69	4.34
25101CE	MC146818	DIP-24	Real time clock plus RAM	5.99	3.48	3.15
10567CE	AM9513APC	DIP-40	System timing counter	39.95	35.95	31.85

* 10 pcs. in Linear series IC cabinet kit, pg 40 ** 20 pcs. in Linear series IC cabinet kit, pg 40

Pull = Extra Savings

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UARTs

DIP

PLCC

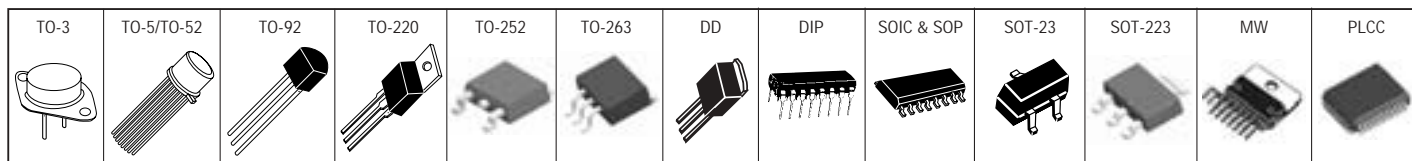
Part No.	Cross Ref.	Pkg.	Description	1	10	100
43158CE	6402	DIP-40	CMOS/LSI UART (TR1863)	\$6.25	\$5.35	\$4.99
27570CE	NS16C450N	DIP-40	CMOS ACE (IBM-AT compat.) (82C450)	2.39	1.93	1.53
288753CE	TL16C450FN	PLCC-68	5V UART, 1-channel w/o FIFO	2.65	2.12	1.66
288761CE	TL16C451FN	PLCC-68	5V UART, 1-channel w/o FIFO, parallel port	4.39	3.55	2.79
288770CE	TL16C452FN	PLCC-68	5V UART, 2-channel w/o FIFO, parallel port	4.45	3.59	2.85
27596CE	NS16550AN	DIP-40	UART w/ FIFO (PC16550DN)	4.99	4.49	2.49
288796CE	TL16C550CN	PLCC-44	5V UART, 1-channel w/ FIFO, ACF	3.09	2.49	1.95
288809CE	TL16C550CN	DIP-40	5V UART, 1-channel w/ FIFO, ACF	3.09	2.49	1.95
288825CE	TL16C552AFN	PLCC-68	5V UART, 2-channel, bcentronics port	5.99	4.85	4.09
288841CE	TL16C554FN	PLCC-68	5V UART, 4-channel w/ 16B FIFO	9.89	9.39	8.93
288876CE	TL16C750FN	PLCC-44	5V UART, 1-channel w/ 64B FIFO	5.75	5.65	5.55
288905CE	TL16C754BFN	PLCC-68	5V UART, 4-channel w/ 64B FIFO	13.69	12.99	12.35

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Manufacturer Cross Reference Table

Manufacturer	Code	Manufacturer	Code	Manufacturer	Code	Manufacturer	Code	Manufacturer	Code
Analog Devices	ADI	Linear Technology	LTC	Microchip	MCH	On Semi	ON	Texas Instruments	TI
Anachip	ANA	Maxim Corporation	MAX	National Semiconductor	NSC	ST Micro	ST	Jameco Value Offering	+

Encoders/Decoders

Package (see above)

Part No.	Cross Ref.	Pkg.	Description	1	10	100
243942CE	HCS300	DIP-8	2-6.3V, Code hopping decoder	\$1.79	\$1.69	\$1.63
243483CE	HCS512	DIP-18	3-6V, Code hopping decoder	7.15	6.85	6.79
243934CE	HCS515	DIP-14	3-6V, Code hopping decoder	3.05	2.89	2.75
243951CE	HCS2000	DIP-8	3.5-13V, Code hopping decoder	1.59	1.53	1.45
123730CE	HT12E	DIP-18	Encoder 12-bit	1.69	1.49	1.29
123748CE	HT12D	DIP-18	Decoder 8-bit address/4-bit data	1.69	1.49	1.29
126607CE	HT648L	DIP-24	Remote control decoder	2.89	2.46	1.84
243441CE	MCP2120	DIP-14	IrDA encoder/decoder	2.09	1.98	1.89
243459CE	MCP2150	DIP-18	IrDA standard protocol stack controller	7.59	7.39	7.03
243408CE	TP3054	DIP-16	5V serial PCM u-Law	2.45	2.08	1.56
243416CE	TP3057	DIP-16	5V serial PCM A-Law	\$2.49	2.35	1.75
243424CE	TP3064	DIP-20	5V serial PCM u-Law	3.19	3.11	3.05
243432CE	TP3067	DIP-20	5V serial PCM A-Law	2.39	1.95	1.49
289529CE	TLC320AC01CFN	PLCC-28	Audio codec, 14-bit, 1-channel, 25kHz	6.99	6.85	6.60
287937CE	MCP2120	SOIC-14	IrDA encoder/decoder	1.99	1.89	1.85
287945CE	MCP2140-I/P	DIP-18	IrDA controller, + DTE/DCE endec	2.29	2.26	2.17
287953CE	MCP2140-I/SO	SOIC-18	IrDA controller, + DTE/DCE endec	2.29	2.22	2.15
287961CE	MCP2140-I/SS	SSOP-20	IrDA controller, + DTE/DCE endec	2.39	2.35	2.27
287970CE	MCP2150-I/SO	SOIC-18	IrDA standard protocol stack controller	6.95	6.85	6.70
291004CE	TP3054WM	SOIC-16	PCM codec, 1-ch., u-law, 2MHz	2.25	1.75	1.35
287849CE	MC145026D	SOIC-16	Encoder, 9-line, simplex, OSC.	1.99	1.27	1.15
296702CE	MC145026P	DIP-16	Encoder, 9-line, simplex, OSC.	1.99	1.29	1.15
287865CE	MC145027DW	SOIC-16	Decoder, 5-line, simplex, OSC.	2.39	2.05	1.80
296711CE	MC145027P	DIP-16	Decoder, 5-line, simplex, OSC.	2.25	1.55	1.41
296729CE	MC145028P	DIP-16	Decoder, 9-line simplex, OSC.	2.75	1.85	1.69
287873CE	MC145481DW	SOG-20	PCM codec, 13-bit, 1-ch., u-law/a-law	2.69	2.49	2.35
287881CE	MC145483SD	SSOP-20	PCM codec, 13-bit, 1-ch., u-law/a-law	3.05	2.85	2.60
287890CE	MC145484DW	SOIC-20	PCM codec, 13-bit, 1-ch., u-law/a-law	2.39	1.75	1.72
287902CE	MC145484SD	SSOP-20	PCM codec, 13-bit, 1-ch., u-law/a-law	2.75	2.49	2.35

KAE Servo and Stepper Motor Controllers

Controllers operate from standard 8-bit serial interface (RS232 or RS485). Using RS485, any mix of up to 32 controllers may be operated from a single serial port. Complete documentation.

146472CE: PIC-SERVO Motion Control Chipset for DC Motors

- PIC servo control for DC motors with digital encoders
- 32-bit position, velocity, and acceleration resolution
- PWM and direction outputs connect to servo amplifier
- Two chip set (PIC-SERVO V.4, 28-pin and PIC-ENC V.1, 18-pin)



175901CE

175901CE: PIC-STEP Motion Control Chip for Stepper Motors

- Step rates up to 50,000 steps/sec. – suitable for use with microstepping drivers
- Trapezoidal positioning and profiled velocity modes
- Programmable current limits automatically switch between holding and running currents
- Programmable accelerations and minimum step rates

323934CE: PIC-SERVO SC Servo Motion Control I.C.

- Servo controller for DC motors (brush or brushless w/ incremental encoder feedback)
- Serial interface connects to RS232/485/422 communication port
- Position control, velocity control, trapezoidal profiling, plus step and direction inputs

Part No.	Description	Package	1	10	50
146472CE	PIC-SERVO chip set	DIP-28/18, 0.3"	\$34.95	\$29.50	\$27.95
175901CE	PIC-STEP chip	DIP-28, 0.3"	\$26.75	23.55	21.00
323934CE	KAE-T01V10-DP	DIP-28, 0.3"	28.95	24.49	22.25

Stepper Motor Drivers/Controllers

Package (see above)

Part No.	Cross Ref.	Pkg.	Description	1	10	100
288059CE	L292	Multiwatt-15	Switch mode DC motor drive, 36V, 36kHz	\$5.29	\$5.03	\$4.78
288067CE	L297/1	DIP-20	5V stepper motor controller	5.49	5.25	4.69
288075CE	L297D	SOIC-20	5V stepper motor controller	5.99	5.69	5.40
288083CE	L6201	SOIC-20	36V DMOS full bridge motor driver	7.79	7.19	6.45
288091CE	L6202	DIP-18	36V DMOS full bridge motor driver	7.85	6.39	5.79
288104CE	L6203	Multiwatt-11	36V DMOS full bridge motor driver	12.35	11.09	10.55
288112CE	L6506	DIP-18	5V stepper motor current controller	4.25	3.49	2.95
288121CE	L6506D	SOIC-20	5V stepper motor current controller	4.49	3.75	3.31

A/D & D/A Converters

Package (see above)

Part No.	Cross Ref.	Pkg.	Description	1	10	100
43748CE	7106CPL	DIP-40	A/D with 3 1/2-digit LCD control	\$3.39	\$2.99	\$2.49
43756CE	7107CPL	DIP-40	A/D with 3 1/2-digit LED control	3.19	2.59	2.19
290263CE	ICL7135CPI	DIP-28	4 1/2 digit precision A/D converter	5.79	4.70	4.02
289545CE	TLC5401DW	SOIC-20	8-bit A/D w/ MUX, sample and hold, serial, 75kHz	3.39	3.25	3.15
289553CE	TLC5401FN	PLCC-20	8-bit A/D w/ MUX, sample/hold, serial, 75kHz	3.39	3.29	3.15
289588CE	TLC5401N	DIP-20	8-bit A/D w/ MUX, sample/hold, serial, 75kHz	3.35	3.15	2.99
289596CE	TLC5411DW	SOIC-20	8-bit A/D w/ MUX, sample/hold, serial, 40kHz	2.89	2.64	2.55
289609CE	TLC5411FN	PLCC-20	8-bit A/D w/ MUX, sample/hold, serial, 40kHz	2.75	2.45	1.95
289625CE	TLC5411N	DIP-20	8-bit A/D w/ MUX, sample/hold, serial, 40kHz	2.85	2.69	2.55
289684CE	TLC542CDW	SOIC-20	8-bit A/D w/ OSC., 25kHz	2.55	2.47	2.45
289692CE	TLC542CN	DIP-20	8-bit A/D w/ MUX, sample/hold, serial, 25kHz	2.55	2.47	2.45
289705CE	TLC5421FN	PLCC-20	8-bit A/D w/ OSC., 25kHz	2.79	2.45	1.97
289713CE	TLC545CN	DIP-28	8-bit A/D w/ MUX, sample/hold, serial 76kHz	5.45	5.35	5.25
289730CE	TLC5481D	SOIC-8	8-bit A/D w/ sample/hold, 1-channel, 45kHz	2.39	2.25	2.20
289756CE	TLC548CP	DIP-8	8-bit A/D w/ sample/hold, 1-channel, 45kHz	2.35	1.99	1.69
289781CE	TLC549CD	SOIC-8	8-bit A/D w/ sample/hold, 1-channel, 45kHz	1.95	1.75	1.65
289810CE	TLC549CP	DIP-8	8-bit A/D w/ sample/hold, 1-channel, 45kHz	1.99	1.76	1.69
290984CE	TLV5711DW	SOIC-24	8-bit, 1-ch parallel A/D converter, 2.7V to 5.5V	4.29	4.09	3.99
290992CE	TLV5711PW	TSSOP-24	8-bit, 1-ch parallel A/D converter, 2.7V to 5.5V	4.29	4.09	3.99
10145CE	ADC0803LCN	DIP-20	8-bit A/D 1-input (±1/2 LSB), 100µs	4.55	3.51	2.69
10153CE	ADC0804LCN	DIP-20	8-bit A/D 1-input (±1 LSB), 100µs	2.49	1.89	1.39
10170CE	ADC0808CCN	DIP-28	8-bit A/D w/ 8-ch. mux. (±1/2 LSB), 100µs	4.99	4.19	3.43
10188CE	ADC0809CCN	DIP-28	8-bit A/D w/ 8-ch. mux. (±1 LSB), 100µs	2.89	2.59	1.99
10209CE	ADC0817CCN	DIP-40	8-bit A/D w/ 16-ch. mux. (±1/2 LSB), 100µs	7.29	6.65	5.95
10225CE	ADC0820CCN	DIP-20	8-bit hi spd (1/2µs) A/D w/ track&hold	2.99	2.29	2.10
116100CE	ADC0831CCN	DIP-8	8-bit A/D w/ 8-ch. diff. input (±1 LSB), 32µs	1.95	1.75	1.59
290474CE	TLV0831CD	SOIC-8	8-bit A/D, multiplexer, serial, 49kHz	2.39	2.29	2.25
290491CE	TLV0831CP	DIP-8	8-bit A/D, multiplexer, serial, 49kHz	2.39	2.15	1.75
251176CE	TL0831CP	DIP-8	8-bit A/D, w/ serial control (±1 LSB), 32µs	2.69	2.55	2.45
290538CE	TLC0832CD	SOIC-8	8-bit A/D, multiplexer, serial, 45kHz	2.39	2.29	2.25
290554CE	TLV0832CP	DIP-8	8-bit A/D, multiplexer, serial, 45kHz	2.39	2.29	2.25
290562CE	TLV0834CD	SOIC-14	8-bit A/D, multiplexer, serial, 41kHz	2.49	2.25	1.79
290571CE	TLV0834IN	DIP-14	8-bit A/D, multiplexer, serial, 41kHz	2.65	2.57	2.50
290600CE	TLV0838CDW	SOIC-20	8-bit A/D, multiplexer, serial, 38kHz	2.49	2.39	2.35
290618CE	TLV0838IN	DIP-20	8-bit A/D, multiplexer, serial, 38kHz	2.65	2.55	2.50
287603CE	ADS930E	SSOP-28	8-bit A/D (±1 LSB), 30MHz	4.89	4.60	4.00
296690CE	AD7226KN	DIP-20	8-bit A/D 4-input (±1 LSB), 5µs	19.89	18.79	17.65
287321CE	AD7226KR	SOIC-28	8-bit A/D 4-input (±1 LSB), 5µs	19.89	18.79	17.65
242296CE	TLC1543	DIP-20	10-bit A/D 11-inputs (±1 LSB), 38ksps	3.15	2.84	2.35
242309CE	TLC1549	DIP-20	10-bit A/D 1-input (±1 LSB), 38ksps	3.59	2.99	2.29
287591CE	ADS901E	SSOP-28	10-bit A/D, (±1LSB), 25MHz	6.49	6.25	5.90
288681CE	THS1030IDW	SOIC-28	10-bit A/D, 30MSPs parallel	7.29	7.05	6.75
288690CE	THS1031IDW	SOIC-28	10-bit A/D, 30MSPs parallel	8.09	7.85	7.55

Thousands of new ICs are in the pipeline for addition and not shown below. Call us to see if you can save 10-20%.

A/D & D/A Converters (Continued)

Package (see pg 39)

Part No.	Cross Ref.	Pkg.	Description	1	10	100
288729CE	THS1031IPW	TSSOP-28	10-bit A/D, 30MSPs parallel	\$8.09	\$7.85	\$7.55
289001CE	TLC1541CDW	SOP-20	10-bit A/D, 11-input serial, 32kHz	6.05	5.75	5.45
289019CE	TLC1541CN	DIP-20	10-bit A/D, 11-input serial, 32kHz	6.09	5.85	5.75
289027CE	TLC1541CFN	PLCC-20	10-bit A/D, 11-input serial, 32kHz	5.79	5.59	5.39
289078CE	TLC1542CDW	SOP-20	10-bit A/D, 11-input ser. (±1/2 LSB Lin.) 38kHz	4.65	4.09	3.49
289107CE	TLC1542CN	DIP-20	10-bit A/D, 11-input ser. (±1/2 LSB Lin.) 38kHz	4.55	4.39	4.25
289115CE	TLC1542CFN	PLCC-20	10-bit A/D, 11-input ser. (±1/2 LSB Lin.) 38kHz	4.55	4.39	4.25
289123CE	TLC1543CDB	SSOP-20	10-bit A/D, 11-input serial, 38kHz	3.65	3.25	3.05
289131CE	TLC1543CDW	SOIC-20	10-bit A/D, 11-input serial, 38kHz	3.35	3.25	3.09
289220CE	TLC1543CFN	PLCC-20	10-bit A/D, 11-input serial, 38kHz	3.35	3.25	3.09
289271CE	TLC1543QDB	SSOP-20	10-bit A/D, 11-input ser. 38kHz, ext. temp.	4.05	3.79	3.75
289300CE	TLC1543QDW	SOIC-20	10-bit A/D, 11-input ser. 38kHz, ext. temp.	3.99	3.79	3.75
289334CE	TLC1543QFN	PLCC-20	10-bit A/D, 11-input ser. 38kHz, ext. temp.	3.99	3.79	3.75
289369CE	TLC1549CD	SOP-8	10-bit A/D, 11-input ser. 38kHz	3.35	3.19	3.05
289377CE	TLC15511FN	PLCC-28	10-bit A/D, 11-input parallel, 164kHz, ITMP	6.29	5.99	5.70
277165CE	MAX186BCPP	DIP-20	12-bit A/D serial 8-input, low power	29.95	23.55	21.25
277157CE	MAX186DCWP	SOIC-20	12-bit A/D serial 8-input, low power	19.75	15.55	13.99
277069CE	MAX197BCNI	DIP-28	12-bit A/D w/ 8-ch, 1/2 LSB	24.99	22.95	20.95
287515CE	ADS574JP	DIP-28	12-bit A/D (±1 LSB), 40ksps	38.79	36.85	35.00
287574CE	ADS574KP	DIP-28	12-bit A/D (±1/2 LSB), 40ksps	44.75	42.49	40.39
287283CE	AD6748JUN	DIP-28	12-bit A/D 1-input (±1 LSB), 15us	41.35	31.05	25.05
287582CE	AD5774JUN	SOIC-28	12-bit A/D (±1 LSB), 125ksps	35.45	33.69	32.00
289422CE	TLC2543CDW	SOIC-20	12-bit A/D, 11-input serial, 66kHz	8.35	7.95	7.55
289431CE	TLC2543CFN	PLCC-20	12-bit A/D, 11-input serial, 66kHz	7.29	6.55	5.59
289465CE	TLC2543CN	DIP-20	12-bit A/D, 11-input serial, 66kHz	8.35	7.95	7.55
289473CE	TLC2543CDB	SSOP-20	12-bit A/D, 11-input serial, 66kHz	8.35	7.95	7.55
290634CE	TLV2543CDW	SOIC-20	12-bit A/D, 11-channel serial	7.99	7.79	7.55
290669CE	TLV2543CDW	DIP-20	12-bit A/D, 11-channel serial	8.35	7.95	7.55
43764CE	7109CPL	DIP-40	12-bit A/D 1-input (±2 LSB), 30sps	7.49	6.37	4.77
311781CE	MCP3221A5T-IOT	SOT-23A/5	12-bit A/D, low-power I2C interface	2.05	1.95	1.85
287988CE	MCP3301-CJMS	MSOP-8	13-bit A/D, 1-input serial, diff. input	2.79	2.65	2.55
287996CE	MCP3301-CJIP	DIP-8	13-bit A/D, 1-input serial, diff. input	2.59	2.49	2.40
288008CE	MCP3302-CJIP	DIP-14	13-bit A/D, 2-input serial, diff. input	3.59	3.45	3.30
288016CE	MCP3302-CJSL	SOIC-14	13-bit A/D, 2-input serial, diff. input	3.59	3.45	3.30
288024CE	MCP3302-CJST	TSSOP-14	13-bit A/D, 2-input serial, diff. input	3.85	3.65	3.50
288032CE	MCP3304-CJIP	DIP-16	13-bit A/D, 4-input serial, diff. input	3.95	3.79	3.65
288041CE	MCP3304-CJSL	SOIC-16	13-bit A/D, 4-input serial, diff. input	3.95	3.79	3.65
277149CE	MAX110ACWE	SOIC-16	14-bit A/D serial w/ 2-ch, 550µA ±.03% typ. acc.	15.25	11.99	10.79
277131CE	MAX110BCPE	DIP-16	14-bit A/D serial w/ 2-ch, 550µA ±.05% typ. acc.	11.69	9.21	8.29
277122CE	MAX110BCWE	SOIC-16	14-bit A/D serial w/ 2-ch, 550µA ±.05% typ. acc.	11.69	9.21	8.29
313779CE	TC500ACOE	SOIC-16	17-bit A/D analog "front end", 18mW	4.55	4.51	4.46
313787CE	TC500CPE	DIP-16	17-bit A/D analog "front end", 18mW	3.35	3.05	2.89
287312CE	AD676JD	DIP-28	16-bit A/D 1-input (±1 LSB), 100ksps	85.69	83.85	81.99
242317CE	ADS7805	DIP-28	16-bit A/D 1-input (±3 LSB), 100ksps	38.29	36.35	34.52
242325CE	ADS7813	DIP-16	16-bit A/D 1-input (±2 LSB), 40ksps	37.85	35.25	33.15
239417CE	AD87825	DIP-28	16-bit A/D 4-input (±2 LSB), 40ksps	46.55	43.45	41.35
287401CE	AD976ABN	DIP-28	16-bit A/D 1-input (±2 LSB), 200ksps	72.69	69.49	66.05
287419CE	AD976ABRS	SSOP-28	16-bit A/D 1-input (±2 LSB), 200ksps	72.99	69.49	66.05
287435CE	AD976BR	SOIC-28	16-bit A/D 1-input (±3 LSB), 100ksps	58.55	55.59	52.85
288593CE	PCM1800E	SSOP-24	20-bit stereo A/D, 2-input serial, 32-48kHz	4.75	4.65	4.49
288622CE	PCM1801U	SOIC-14	20-bit stereo A/D, 2-input serial, 32-48kHz	4.89	4.29	4.15
287363CE	AD7714AN	DIP-24	24-bit A/D 6-input, 38ksps	18.35	17.95	17.50
316726CE	TC7117CPL	DIP-40	A/D conv w/ 3 1/2 digit LED/LCD driver	2.75	2.55	2.25
287793CE	MC144110DW	SOIC-20	6-bit D/A, 6-input, serial R-2R	4.45	4.20	3.90
287822CE	MC144111DW	SOIC-16	6-bit D/A, 4-input, serial R-2R	3.65	2.49	2.29
115158CE	AD558JN	DIP-16	8-bit D/A 1-input (±1/2 LSB), 200ns	12.59	11.99	11.29
14904CE	DAC0800LCN	DIP-16	8-bit D/A (±1 LSB), 100ns	1.79	1.59	1.45
14912CE	DAC0806LCN	DIP-16	8-bit D/A (±1 LSB), 150ns (MC1408P6)	1.89	1.85	1.82
14947CE	DAC0808LCN	DIP-16	8-bit D/A (±1 LSB), 150ns (MC1408P8)	1.59	1.39	1.09
14963CE	DAC0830LCN	DIP-20	8-bit D/A double buffer (.05% Lin.), 1µs	5.95	4.49	4.35
128186CE	DAC0832LCN	DIP-20	8-bit D/A double buffer (.20% Lin.), 1µs	3.09	2.99	1.89
290781CE	TLV5604ID	SOIC-16	8-bit D/A, 4-channel, serial	6.85	6.75	6.39
290790CE	TLV5604IPW	TSSOP-16	8-bit D/A, 4-channel, serial	6.85	6.75	6.39
289836CE	TLC5620CN	DIP-14	8-bit D/A, 4-channel, serial	2.89	2.72	2.69
289844CE	TLC5620CD	SOIC-14	8-bit D/A, 4-channel, serial	2.75	2.64	2.55
289861CE	TLC5628CDW	SOIC-16	8-bit D/A, 8-channel, serial, 5V	4.75	4.29	4.15
289879CE	TLC5628CN	DIP-16	8-bit D/A, 8-channel, serial, 5V	4.65	4.55	4.30

A/D & D/A Converters (Continued)

Package (see pg 39)

Part No.	Cross Ref.	Pkg.	Description	1	10	100
290968CE	TLV5628DW	SOIC-16	8-bit D/A, 8-channel, serial, 3V	\$4.49	\$3.95	\$3.75
290976CE	TLV5628CN	DIP-16	8-bit D/A, 8-channel, serial, 3V	4.69	3.79	2.99
54025CE	AD7523JN	DIP-16	8-bit D/A 1-input (±1 LSB), 150ns	2.99	2.49	2.19
289895CE	TLC7524CD	SOIC-16	8-bit D/A, multiplier, parallel	2.59	2.19	1.79
290052CE	TLC7524CN	DIP-16	8-bit D/A, multiplier, parallel	2.75	2.39	1.95
290087CE	TLC7528CN	DIP-20	8-bit D/A, multiplier, parallel	2.69	2.25	1.92
290095CE	TLC7528DW	SOIC-20	8-bit D/A, multiplier, parallel	2.55	2.49	2.05
287339CE	AD7628KN	DIP-20	8-bit D/A 2-input (±1 LSB), 350ns	4.35	3.79	3.70
239425CE	TLC5615	DIP-8	10-bit D/A 1-input (±1 LSB), 12µs	3.49	2.79	2.32
287380CE	AD9760AR	SOIC-28	10-bit D/A, 125MSPs	8.19	7.39	6.69
287443CE	AD9832BRU	TSSOP-16	10-bit DDS D/A, 25MHz	8.89	8.15	7.29
287451CE	AD9850BRS	SSOP-28	10-bit DDS D/A w. comp., 3.5ns	20.09	18.45	17.39
287347CE	AD767JN	DIP-24	12-bit D/A 1-input (±1 LSB), 4us	20.49	19.49	18.50
287355CE	AD767KN	DIP-24	12-bit D/A 1-input (±1/2 LSB), 4us	20.09	18.69	17.25
14980CE	DAC1222LCN	DIP-18	12-bit D/A (.20% Lin.), 500ns	9.95	8.95	8.05
290802CE	TLV5610DW	SOIC-20	12-bit D/A, 8-channel, serial	15.99	15.25	14.49
290845CE	TLV5610PW	TSSOP-20	12-bit D/A, 8-channel, serial	16.05	15.25	14.49
290829CE	TLV5613DW	SOIC-20	12-bit D/A, 1-channel, parallel	5.09	4.99	4.75
290853CE	TLV5613PW	TSSOP-20	12-bit D/A, 1-channel, parallel	5.09	5.00	4.75
290896CE	TLV5614CD	SOIC-16	12-bit D/A, 4-channel, serial	13.95	13.25	12.59
290933CE	TLV5614CPW	TSSOP-16	12-bit D/A, 4-channel, serial	13.95	13.25	12.59
287398CE	AD9764AR	SOIC-28	14-bit D/A, 125MSPs	14.25	11.75	11.15
239433CE	DAC712	DIP-28	16-bit D/A 1-input (±1 LSB), 10µs	20.05	18.93	17.96
242771CE	DAC714P	DIP-16	16-bit D/A w/ ser. interf. (±1 LSB), 10µs, mult. out. ranges	39.35	33.75	29.55
243336CE	DAC715	SOIC-28	16-bit D/A w/ bus interf. (±1 LSB), 10µs	34.55	33.65	32.85
243344CE	DAC716	DIP-16	16-bit D/A w/ serial interf. (±1 LSB), 10µs	27.45	25.65	24.85

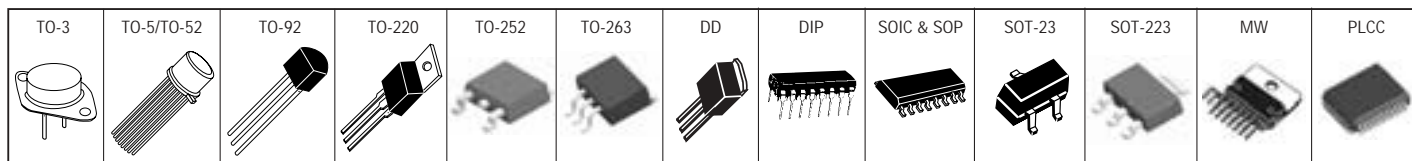
Low Drop-Out Voltage Regulators

Package (see pg 39)

Part No.	Mfr.	Cross Ref.	Pkg.	Description	1	10	100
299743CE	+	LM1084IT-ADJ	TO-220	5A low drop out adj. pos. volt. reg.	\$1.75	\$1.32	\$.98
299735CE	+	LM1084IT-3.3	TO-220	5A low drop out 3.3V pos. volt. reg.	1.75	1.32	.98
309770CE	+	LM1084IT-12	TO-220/3	5A low drop out pos. 12V volt. reg.	1.17	1.09	1.02
314587CE	ANA	AP1084T	TO-220/3	5A LDO pos volt reg (adj)	1.19	.95	.77
282781CE	+	LD1085D2M33	DD	3A low drop pos volt reg. adj./fixed	1.89	1.71	1.54
282757CE	+	LT1085CT	TO-220	3A low drop pos volt reg. adj./fixed	1.79	1.61	1.45
302471CE	+	LM1085IS-ADJ	TO-263	3A low drop out adj. pos. volt. reg.	1.29	.97	.72
302463CE	+	LM1085IS-3.3	TO-263	3A low drop out 3.3V pos. volt. reg.	1.29	.97	.72
302455CE	+	LM1085IT-ADJ	TO-220	3A low drop out adj. pos. volt. reg.	1.29	.97	.72
244312CE	+	LD1086D2M33	TO-263/3	3.3V, low dropout voltage reg.	1.69	1.44	1.08
245585CE	+	LD1086D2M50	TO-263/3	5.0V, low drop positive voltage reg.	1.09	.97	.88
314579CE	ANA	AP1086D	TO-252/3	1.5A LDO pos volt reg (adj)	1.25	.91	.67
245526CE	+	LM1086CS-ADJ	TO-263/3	1.5A low dropout positive reg.	1.15	.98	.73
192305CE	+	LM1086CT-3.3	TO-220/3	1.5A low dropout positive reg. (3.3V)	1.09	.81	.60
192313CE	+	LM1086CT-5.0	TO-220/3	1.5A low dropout positive reg. (5V)	1.18	.87	.64
192292CE	+	LM1086CTADJ	TO-220/3	1.5A low dropout positive reg.	1.40	1.19	.89
314552CE	ANA	AP1086D33	TO-252/3	1.5A low dropout positive volt reg (3.3V)	1.19	.90	.665
314536CE	ANA	AP1086T	TO-220/3	1.5A pos LDO voltage reg (adj)	1.25	.91	.67
314501CE	ANA	AP1086T33	TO-220/3	1.5A pos LDO voltage reg (3.3V)	1.25	.91	.67
314481CE	ANA	AP117D	TO-252/3	1A pos adj LDO voltage reg	1.03	.76	.551
314472CE	ANA	AP1117D50	TO-252/3	1A pos LDO voltage reg (5V)	1.03	.76	.551
314464CE	ANA	AP117E25	SOT-223/3	1A pos LDO voltage reg (2.5V)	.91	.68	.494
314448CE	ANA	AP117E50	SOT-223/3	1A pos LDO voltage reg (5V)	.89	.68	.494
314376CE	ANA	AP1117T	TO-220/3	1A pos. adj. LDO voltage reg.	1.19	.865	.66
242042CE	+	LM1117DT-3.3	TO-252/3	800mA low dropout linear reg.	.78	.66	.50
242069CE	+	LM1117DT-5.0	TO-252/3	800mA, 5V, low dropout voltage reg.	.91	.66	.49
251782CE	+	LM1117MPX-ADJ	SOT-223/3	800mA low drop out linear regulator	.37	.35	.33
242114CE	+	LM1117T-3.3	TO-220/3	800mA, 3.3V, LDO voltage reg.	.66	.625	.57
243539CE	+	LM1117T-ADJ	TO-220/3	800mA, adj., LDO voltage reg.	1.27	.83	.68
314325CE	ANA	AP1184K5	TO-263/5	4A ultra LDO adjustable regulator	5.29	3.69	3.29
244216CE	+	LT1585ACT-3.3	TO-220/3	5A, 3.3V, LDO voltage reg.	\$4.39	2.29	1.95
244224CE	+	LT1585ACT-ADJ	TO-220/3	5A, adjustable, LDO volt. reg.	\$4.75	2.29	1.95
244144CE	+	LT1587CM	DD/3	3A LDO voltage regulator	5.85	4.00	3.80
244152CE	+	LT1587CT-3.3	TO-220/3	3A, 3.3V, LDO voltage reg.	1.39	1.03	.76
244161CE	+	LM1587CT-ADJ	TO-220/3	3A LDO fast response reg.	1.65	1.22	.90
310244CE	TI	LM2217-33KC	TO-220/3	LDO 3.3V volt. reg. PNP	.76	.64	.515
310121CE	+	LM2930T-5.0	TO-220/3	3-terminal positive voltage regulator	.71	.69	.65

+ Jameco Value Offering

Thousands of new ICs are in the pipeline for addition and not shown below. Call us to see if you can save 10-20%.



Manufacturer Cross Reference Table									
Manufacturer	Code	Manufacturer	Code	Manufacturer	Code	Manufacturer	Code	Manufacturer	Code
Analog Devices	ADI	Linear Technology	LTC	Microchip	MCH	On Semi	ON	Texas Instruments	TI
Anachip	ANA	Maxim Corporation	MAX	National Semiconductor	NSC	ST Micro	ST	Jameco Value Offering	+

Low Drop-Out Voltage Regulators (Continued)

Part No.	Mfr.	Cross Ref.	Pkg.	Description	1	10	100
121030CE	+	LM2931AZ-5.0	TO-92	5V LDO regulator	\$.49	\$.43	\$.31
23368CE	+	LM2931CT	TO-220/5	3V-24V LDO regulator	.56	.53	.50
256612CE	+	LM2931D-5.0	SOIC-8	5V LDO regulator	.46	.39	.29
121048CE	+	LM2931Z-5.0	TO-92	5V LDO regulator	.39	.36	.34
291098CE	NSC	LM2937ES-2.5	TO-263	2.5V 500mA LDO regulator	1.55	1.16	.87
297810CE	NSC	LM2937ET-5.0	TO-220	5V 500mA LDO regulator	1.35	1.00	.88
291101CE	NSC	LM2937ET-10	TO-220	10V 500mA LDO regulator	1.69	1.10	.91
192495CE	+	LM2940CT-12	TO-220/3	12V LDO reg. (max. 45Vin)	1.27	1.02	.75
107182CE	+	LM2940CT-5	TO-220/3	5V LDO reg. (max. 45Vin)	1.39	1.05	.77
245657CE	+	LM2941CS	TO-263/5	1A LDO adjustable regulator	1.64	1.39	1.05
121064CE	+	LM2941CT	TO-220/5	1A LDO adjustable reg. (45Vin)	.99	.88	.71
23376CE	+	LM2941T	TO-220/5	1A LDO adjustable reg. (60Vin)	1.55	1.29	.97
121101CE	+	LP2950ACZ-5.0	TO-92	Low power LDO 3V low % reg.	.69	.59	.44
266781CE	+	LP2950CDT-5.0	TO-252/3	100mA low pwr. LDO volt. reg.	.99	.74	.54
266845CE	+	LP2950CZ-3.0	TO-92	100mA low pwr. LDO volt. reg.	.80	.60	.47
266757CE	+	LP2950CZ-5.0	TO-92	100mA low pwr. LDO volt. reg.	.80	.59	.29
266669CE	NSC	LP2967IBP-2533	BPA-8	Dual μ Pwr 150mA LDO reg. (2.5/3.3V)	3.05	2.76	2.48
266589CE	NSC	LP2967IBP-2828	BPA-8	Dual μ Pwr 150mA LDO reg. (2.8/2.8V)	3.05	2.76	2.49
266626CE	NSC	LP2967IMM-2528	MSOP-8	Dual μ Pwr 150mA LDO reg. (2.5/2.8V)	2.79	2.50	2.25
266407CE	NSC	LP2967IMM-2533	MSOP-8	Dual μ Pwr 150mA LDO reg. (2.5/3.3V)	2.79	2.50	2.25
266597CE	NSC	LP2967IMM-2626	MSOP-8	Dual μ Pwr 150mA LDO reg. (2.6/2.6V)	2.79	2.52	2.27
266642CE	NSC	LP2967IMM-2828	MSOP-8	Dual μ Pwr 150mA LDO reg. (2.8/2.8V)	2.79	2.50	2.25
266706CE	NSC	LP2966ILD-3.0	LLP-8	μ Pwr, 200mA ultra LDO fixed volt reg.	1.99	1.79	1.62
266722CE	NSC	LP2987ILD-5.0	LLP-8	Same as above w/ prog. pwr-on reset delay	1.99	1.79	1.62
246545CE	NSC	LM3480IM3-3.3	SOT-23/3	100mA quasi LDO linear volt. reg.	.99	.90	.81
246553CE	NSC	LM3480IM3-5.0	SOT-23/3	100mA quasi LDO linear volt. reg.	.99	.74	.55
192254CE	+	LM3940IT-3.3	TO-220/3	1A LDO for 5V to 3.3V	1.95	1.76	1.36
252241CE	+	MC29152BU	TO-263/5	1.5A high current LDO reg.	3.09	2.63	1.97
251344CE	TI	TP76201DBVR	SOT-23/5	100mA LP low output adj. LDO linear reg	1.29	1.16	1.04

Voltage Regulators

Part No.	Mfr.	Cross Ref.	Pkg.	Description	1	10	100
282618CE	+	LM1117H	TO-39	3-terminal adjustable regulator	\$6.45	\$5.17	\$4.20
282036CE	+	LM140LAH-5.0	TO-39	3-terminal positive regulator	5.55	4.27	3.24
302375CE	+	LM217T	TO-220	1.2 - 37V adj. positive voltage reg.	.65	.62	.59
23499CE	+	LM309K	TO-3/2	5V 1A regulator (0°C to +125°C)	4.99	3.85	2.98
192268CE	+	LM317AT	TO-220/3	3-terminal adjustable reg. (1.2V-37V)	1.75	1.25	.95
192276CE	+	LM317HVT	TO-220/3	3-terminal adjustable reg. (1.2V-57V)	1.99	1.77	1.31
23544CE	+	LM317K	TO-3/2	1.5A adj. pos. reg. (1.2V-37V)	1.99	1.49	1.12
193551CE	+	LM317LM	SOIC-8	100mA adj. pos. regulator (1.2V to 37V)	.35	.30	.22
23552CE	+	LM317LZ	TO-92	100mA adj. pos. reg. (1.2V-37V)	.23	.22	.20
23579CE	+	LM317T**	TO-220/3	1.5A adj. pos. reg. (1.2V-37V)	.45	.39	.34
23667CE	+	LM323K	TO-3/2	5V 3A positive regulator	2.89	2.75	2.29
23798CE	+	LM337K	TO-3/2	1.5A/3 term. adj. neg. reg.	5.15	3.97	3.06
193586CE	+	LM337LM	SOIC-8	1.5A adj. neg. regulator (-1.2V to -37V)	.52	.46	.42
296841CE	+	LM337LZ	TO-92	3-terminal adj. neg. voltage reg.	.54	.465	.395
23819CE	+	LM337T*	TO-220/3	1.5A/adj. neg. reg. (-1.2V-37V)	.59	.55	.44
23835CE	+	LM338K	TO-3/2	5A adj. pos. reg. (1.2V-32V)	4.95	3.89	3.25
192284CE	+	LM338T	TO-220/3	5A adjustable regulator	1.99	1.49	.99
23931CE	+	LM350K	TO-3/2	3A/3 term. adj. pos. reg. (1.2V-33V)	4.75	3.75	2.89
23940CE	+	LM350T	TO-220/3	3 amp. adj. power regulator	1.09	.89	.69
239134CE	+	LM431ACM	SOIC-8	Programmable shunt regulator	.46	.31	.23
278248CE	+	TL431AILP	TO-92	Adjustable precision shunt regulator	1.41	.34	.23
314069CE	ANA	AP431AR	SOT-23	Prog. shunt regulator (5%, 2.5 - 36V)	.62	.536	.455

*10 pieces included in Linear kit, pg 40 **20 pieces included in Linear kit, pg 40

Voltage Regulators (Continued)

Part No.	Mfr.	Cross Ref.	Pkg.	Description	1	10	100
314051CE	ANA	AP431AVL	TO-92	Prog. shunt regulator (5%, 2.5 - 36V)	\$.65	\$.565	\$.475
314018CE	ANA	AP431V	TO-92	Prog. shunt regulator (1%, 2.5 - 36V)	.36	.31	.265
239142CE	+	LM431BCM	SOIC-8	Programmable shunt regulator	.42	.36	.28
251862CE	+	LM431CIM	SOIC-8	Adj. precision zener shunt regulator	.37	.32	.27
276525CE	MAX	MAX637ACPA	DIP-8	Preset/Adj. output CMOS invert switching reg.	6.25	4.95	4.46
276517CE	MAX	MAX637ACSA	SOIC-8	Preset/Adj. output CMOS invert switching reg.	6.45	4.93	3.60
214500CE	+	LM723CD	SOIC-14	High precision voltage regulator	.32	.27	.20
24467CE	+	LM723CN*	DIP-14	Voltage regulator (2V-37V)	.26	.24	.23
301719CE	+	LM723H	TO-5	2V - 37V, 150mA adj. voltage reg.	3.49	2.67	2.07
298071CE	+	MAX755CSA	SOIC-8	-5V/adj., neg. output, invert, curr. mode PWM reg.	3.85	3.65	3.46
302279CE	+	LM2524DN	DIP-16	200mA regulating PWM	1.39	.99	.90
192330CE	+	LM2574HMV-5.0	DIP-8	Simple switcher 0.5A step down volt. reg.	3.99	2.91	2.77
192348CE	+	LM2574HMV-12	DIP-8	Simple switcher 0.5A step down volt. reg.	3.95	3.02	2.27
245551CE	+	LM2574N-ADJ	DIP-8	Simple switcher 0.5A step down volt. reg.	.93	.83	.69
156566CE	+	LM2574N-5	DIP-8	Step-down 5-voltage regulator	1.49	1.27	.95
279638CE	NSC	LM2575HVT-5.0	TO-220	Switcher 1A step down V-reg., high Vin range	4.35	3.35	3.15
279603CE	NSC	LM2575HVT-12	TO-220	Switcher 1A step down V-reg., high Vin range	4.35	3.64	3.28
192399CE	+	LM2576HVT-12	TO-220/5	Switcher 3A step down V-reg., high Vin range	5.89	4.38	3.33
192381CE	+	LM2576HVT-5.0	TO-220/5	Switcher 3A step down V-reg., high Vin range	5.09	4.59	4.13
192372CE	+	LM2576HVT-ADJ	TO-220/5	Switcher 3A step down V-reg., high Vin range	5.09	3.93	3.04
245569CE	+	LM2576T-5.0	TO-220/5	Simple switcher 3A step down volt. reg.	2.35	1.76	1.36
120977CE	+	LM2576T-ADJ	TO-220/5	Simple switcher 3A step down volt. reg.	1.89	1.51	1.19
300821CE	NSC	LM2586S-ADJ	TO-263	Simple switcher 3A flyback reg. w/ shutdown	5.95	5.15	5.06
300871CE	NSC	LM2586S-5.0	TO-263	Simple switcher 3A flyback reg. w/ shutdown	5.95	5.15	5.06
300898CE	NSC	LM2586S-12	TO-263	Simple switcher 3A flyback reg. w/ shutdown	5.95	5.15	5.06
300919CE	NSC	LM2586T-ADJ	TO-220	Simple switcher 3A flyback reg. w/ shutdown	5.95	5.15	5.06
300804CE	NSC	LM2588S-ADJ	TO-263	Simple switcher 5A flyback reg. w/ shutdown	7.75	6.20	5.55
300847CE	NSC	LM2588T-ADJ	TO-220	Simple switcher 5A flyback reg. w/ shutdown	7.79	7.45	7.05
300759CE	NSC	LM2592HVS-ADJ	TO-263	Simple switcher 2A step down voltage reg.	5.55	4.59	4.33
300783CE	NSC	LM2592HVS-5.0	TO-263	Simple switcher 2A step down voltage reg.	5.55	4.59	4.33
300724CE	NSC	LM2592HVT-ADJ	TO-220	Simple switcher 2A step down voltage reg.	5.55	4.25	3.53
300732CE	NSC	LM2592HVT-3.3	TO-220	Simple switcher 2A step down voltage reg.	5.55	4.80	4.33
300716CE	NSC	LM2594M-3.3	SOIC-8	Simple switcher 0.5A step down voltage reg.	2.79	2.41	2.17
192428CE	NSC	LM2594N-ADJ	DIP-8	Simple switcher pwr. conv. 150kHz 0.5A	2.79	2.40	2.28
300695CE	NSC	LM2594N-3.3	DIP-8	Simple switcher 0.5A step down voltage reg.	2.79	2.29	2.17
300265CE	NSC	LM2595S-ADJ	TO-263	Simple switcher 1A step down volt. reg.	3.65	2.79	2.39
300273CE	NSC	LM2595S-12	TO-263	Simple switcher 1A step down voltage reg.	3.49	2.89	2.74
300775CE	NSC	LM2595T-ADJ	TO-220	Simple switcher 1A step down voltage reg.	3.49	2.70	2.07
192452CE	NSC	LM2595T-5.0	TO-220/5	Simple switcher pwr. conv. 150kHz 1A	1.95	1.74	1.59
310391CE	NSC	LM2596S-5.0	TO-263/5	Simple switcher 3A step-down voltage reg.	3.89	2.99	2.89
290626CE	NSC	LM2596T-ADJ	TO-220/7	Simple switcher 3A step-down voltage reg.	3.89	2.99	2.35
290642CE	NSC	LM2596T-5.0	TO-220/7	Simple switcher 3A step-down voltage reg.	3.95	3.25	3.09
290597CE	NSC	LM2599T-ADJ	TO-220/7	Simple switcher 3A st-dn volt. reg. w/ flags	4.69	3.58	3.22
290749CE	NSC	LM2651MTC-3.3	TSSOP-16	1.5A high eff. synch. switching reg.	3.15	2.99	2.85
290757CE	NSC	LM2670S-5.0	TO-263/7	5V high eff. simple switcher	4.29	3.55	3.35
312397CE	NSC	LM2636MTC	TSSOP-20	5-bit prog. synchronous buck reg.	3.45	2.65	2.56
312389CE	NSC	LM2653MTC-ADJ	TSSOP-16	1.5A high eff. synch. switching reg.	4.19	3.25	3.12
290765CE	NSC	LM2672N-5.0	DIP-8	5V high eff. simple switcher, 1A load	3.79	3.15	2.96
290888CE	NSC	LM2674M-ADJ	SOIC-8	Adjustable voltage hi efficiency switcher	2.85	2.35	2.20
290861CE	NSC	LM2674N-5.0	DIP-8	5V high eff. simple switcher, 500mA load	2.85	2.35	2.20
291012CE	NSC	LM2675N-ADJ	DIP-8	Simple switcher 1A step down volt. reg. pwr. cvtr	3.65	2.99	2.85
291039CE	NSC	LM2678S-ADJ	TO-263/7	Simple switcher 5A step down volt. reg., hi-eff	5.45	5.29	5.05
291047CE	NSC	LM2678T-5.0	TO-220/7	Simple switcher 5A step down volt. reg., hi-eff	5.45	5.29	5.05
290651CE	NSC	LM2596S-ADJ	TO-263	Simple switcher 3A step down volt. reg.	3.89	2.99	2.28
290394CE	NSC	LM2599S-ADJ	TO-263/7	Simple switcher 3A step down volt. reg.	4.75	3.85	3.64

*10 pieces included in Linear kit, pg 40 + Jameco Value Offering

Thousands of new ICs are in the pipeline for addition and not shown below. Call us to see if you can save 10-20%.

Voltage Regulators (Continued)

Package (see pg 41)

* Prepackaged: order in increments of 10, 100 or 1000						1	10	100
Part No.	Mfr.	Cross Ref.	Pkg.	Description				
245649CE	+	LM2936MP-3.3	SOT-223	Ultra-low quiescent current 3.3V reg.	\$3.25	\$2.93	\$1.92	
107166CE	+	LM2936Z-5	TO-92	Ultra-low quiescent current 5V reg.	1.85	1.68	1.18	
239151CE	+	LP2951CM	SOIC-8	Adj. micropower volt. reg. ....	.75	.63	.473	
277077CE	+	LP2952IM	SOIC-16	Adj. micropower low pwr volt reg.	2.35	1.75	1.44	
51246CE	+	7805K	TO-3/2	5V 1A pos. voltage reg. (LM340K-5) ..	5.15	3.95	3.06	
51262CE	+	7805T**	TO-220/3	5V 1A pos. voltage reg. (LM340T-5) ....	.35	.32	.28	
51182CE	+	78L5CZ**	TO-92	5V 100mA pos. voltage regulator .....	.27	.24	.22	
193754CE	+	78L05ACM	SOIC-8	5V 100mA pos. voltage regulator .....	.28	.22	.19	
192233CE	+	78M05	TO-220/3	5V 500mA pos. voltage regulator .....	.35	.32	.24	
51297CE	+	7806T	TO-220/3	6V 1A pos. voltage reg. (LM340T-6) ....	.30	.25	.21	
193762CE	+	78L06ACM	SOIC-8	6.2V 100mA pos. volt. reg. ....	.22	.15	.13	
51300CE	+	7808CT*	TO-220/3	8V 1A pos. voltage reg. (LM340T-8) ....	.46	.35	.27	
192225CE	+	78L09ACZ	TO-92	9V 100mA pos. voltage regulator .....	.24	.23	.17	
51318CE	+	7812K	TO-3/2	12V 1A pos. voltage reg. (LM340K-12) ..	2.19	1.79	1.59	
51334CE	+	7812T**	TO-220/3	12V 1A pos. voltage reg. (LM340T-12) ....	.35	.32	.28	
51203CE	+	78L12CZ*	TO-92	12V 100mA pos. voltage regulator	*	.19	.155	
193771CE	+	78L12ACM	SOIC-8	12V 100mA pos. voltage regulator .....	.46	.35	.263	
192241CE	+	78M12CT	TO-220/3	12V 500mA pos. voltage regulator .....	.31	.27	.21	
51369CE	+	7815K	TO-3/2	15V 1A pos. voltage reg. (LM340K-15) ..	1.19	1.12	1.03	
51377CE	+	7815T*	TO-220/3	15V 1A pos. voltage reg. (LM340T-15) ....	.28	.25	.22	
193789CE	+	78L15ACM	SOIC-8	15V 100mA pos. voltage regulator	*	.20	.15	
192250CE	+	78M15CT	TO-220/3	15V 500mA pos. voltage regulator .....	.35	.28	.20	
194634CE	+	7818T	TO-220/3	18V 1A pos. voltage reg. (LM340T-18) ..	.56	.44	.34	
51414CE	+	7824T	TO-220/3	24V 1A pos. voltage reg. (LM340T-24) ..	.36	.34	.31	
51238CE	+	78S40CN	DIP-16	1.25V-40V 1.5A switching regulator ..	1.35	1.08	.87	
51457CE	+	7905T*	TO-220/3	5V 1A neg. voltage reg. (LM320T-5) ....	.42	.38	.36	
51422CE	+	79L05ACP	TO-92	5V 100mA neg. voltage regulator .....	.26	.22	.165	
193797CE	+	79L05ACM	SOIC-8	-5V 100mA neg. voltage regulator .....	.60	.14	.12	
51449CE	+	79M05CT	TO-220/3	3-terminal negative regulator .....	.43	.37	.34	
51481CE	+	7912CT*	TO-220/3	12V 1A neg. voltage reg. (LM320T-12) ....	.31	.27	.21	
51431CE	+	79L12CZ	TO-92	12V 100mA neg. voltage regulator .....	.23	.21	.16	
193800CE	+	79L12ACM	SOIC-8	-12V 100mA neg. voltage regulator .....	.58	.20	.18	
51502CE	+	7915CT*	TO-220/3	15V 1A neg. voltage reg. (LM320T-15) ....	.32	.27	.22	
194749CE	+	79L15ACZ	TO-92	15V 100mA neg. voltage regulator .....	.35	.30	.21	
193818CE	+	79L15ACM	SOIC-8	-15V 100mA neg. voltage regulator .....	.38	.32	.24	
316881CE	+	MC34063AD	SOIC-8	1.5A Step-up/down inverting switch reg. ....	.52	.432	.353	
316945CE	+	MC34063AP1	DIP-8	1.5A Step-up/down inverting switch reg. ....	.66	.473	.437	
314317CE	ANA	AP34063N	DIP-8	1.6A adjustable voltage regulator .....	.75	.66	.499	

*10 pcs. included in Linear kit, right **20 pcs. in Linear kit, right + Jameco Value Offering

Audio

Package (see pg 41)

Part No.	Mfr.	Cross Ref.	Pkg.	Description	1	10	100
277624CE	+	INA103KP	DIP-16	Low noise/distortion instr. amp.	\$8.55	\$7.67	\$6.91
277632CE	+	INA103KU	SOIC-16	Low noise/distortion instr. amp.	8.55	7.67	6.91
278408CE	+	TPA112D	SOIC-8	150mW stereo aud. pwr amp, diff in. ....	.89	.75	.60
310560CE	+	TPA122D	SOIC-8	150mW stereo aud. pwr amp, sgl in./ch. ....	.98	.83	.75
243678CE	ADI	OP275GP	DIP-8	Dual JFET audio op amp.	1.95	1.62	1.52
243660CE	ADI	OP275GS	SOIC-8	Dual JFET audio op amp.	1.85	1.57	1.18
24037CE	NSC	LM380N	DIP-14	2-watt audio power amp. ....	.94	.87	.63
24088CE	NSC	LM383T	TO-220/5	7-watt audio high power amp.	5.95	5.39	4.95
24096CE	+	LM384N	DIP-14	5-watt audio amp.	1.45	1.17	.87
193623CE	+	LM386M-1	SOIC-8	Low volt. audio power amp. 250mW/12V ....	.31	.28	.24
24125CE	+	LM386N-1*	DIP-8	Low voltage audio amp. 250mW/6V ....	.48	.35	.29
24133CE	+	LM386N-3*	DIP-8	Low voltage audio amp. 500mW/9V ....	.69	.59	.49
24483CE	+	LM725CN	DIP-8	Instrumentation op amplifier	2.39	1.84	1.42
279697CE	+	LM833D	SOIC-8	Dual audio op amp. ....	.41	.36	.32
120942CE	+	LM833N	DIP-8	Dual audio op amp. ....	.71	.60	.45
295718CE	NSC	LM1203N	DIP-28	RGB video amp.	4.55	4.09	3.69
24942CE	ON	MC1350P	DIP-8	Video IF amp (12V operation)	1.95	1.85	1.75
23270CE	NSC	LM1875T	TO-220/5	20-watt power audio amplifier	1.45	1.39	1.19
355477CE	NSC	LM1875TSL	TO-220/5	20-watt audio power amplifier	1.12	1.03	1.02
245534CE	NSC	LM1877M-9	SOIC-14	Dual audio power amplifier	\$4.39	1.05	.67
23288CE	NSC	LM1877N-9	DIP-14	Dual power audio amplifier .....	.95	.84	.61
245542CE	NSC	LM1881M	SOIC-8	Video synchronous separator	2.45	2.08	1.56

*10 pcs. included in Linear kit, right + Jameco Value Offering

Audio (Continued)

Package (see pg 41)

Part No.	Mfr.	Cross Ref.	Pkg.	Description	1	10	100
107140CE	NSC	LM1881N	DIP-8	Video synchronous separator	\$2.69	\$2.05	\$1.55
243547CE	NSC	LM1894N	DIP-14	DNR noise reduction	3.15	2.80	2.34
302519CE	NSC	LM1971M	SOIC-8	Audio attenuator with mute	2.35	1.79	1.65
302447CE	NSC	LM1972M	SOIC-20	2-channel audio attenuator	4.15	3.18	2.89
302421CE	NSC	LM1972N	DIP-20	2-channel audio attenuator	4.55	3.69	3.50
32897CE	ST	TDA2002V	TO-220/5	8-watt audio high power amp.	3.55	3.18	2.87
315344CE	+	TDA2040V	PWAT-5	20W hi-fi audio power amp.	2.45	2.25	2.14
275830CE	ADI	OPA2134PA	DIP-8	High-performance audio op amp.	2.39	1.93	1.67
275821CE	ADI	OPA2134UA	SOIC-8	High-performance audio op amp.	2.25	2.02	1.82
312063CE	+	SSM2141P	DIP-8	High common-mode rejection diff. line rec.	3.19	2.79	2.69
252013CE	NSC	LM3875T	TO-220/11	56W high perf. audio power amp.	5.19	4.11	3.70
126834CE	NSC	LM3876T	TO-220/11	40W high perf. audio amp w/ mute	4.75	3.66	2.82
320670CE	NSC	LM3886TF	TO-220/11	68W high perf. audio amp, isol. pkg.	4.55	3.49	2.70
192516CE	NSC	LM3886T	TO-220/11	68W high perf. audio amp.	4.35	3.32	2.57
302201CE	NSC	LM4752T	TO-220	Stereo 11W audio power amp.	2.45	1.82	1.35
302199CE	NSC	LM4860M	SOIC-16	1W audio power amp w/ shutdown mode	1.59	1.19	.88
267047CE	NSC	LM4864M	SOIC-8	725mW audio pwr amp w/ shutdown mode ..	1.45	1.06	.78
302181CE	NSC	LM4871M	SOIC-8	3W audio power amp w/ shutdown mode	1.45	1.09	.80
316873CE	+	MC34119D	SOIC-8	LP audio amp (500mW, 16VDC) .....	.93	.71	.54
316865CE	+	MC34119P	DIP-8	LP audio amp (500mW, 16VDC)	1.02	.66	.61

+ Jameco Value Offering

Comparators

Package (see pg 41)

Part No.	Mfr.	Cross Ref.	Pkg.	Description	1	10	100
311052CE	NSC	LM111H	TO-5/8	Voltage comparator	\$3.39	\$2.60	\$2.01
311044CE	NSC	LM111J-8	DIP-8	Voltage comparator	4.35	3.32	3.20
282061CE	+	LM139D	SOP-14	Low pwr, low offset volt quad comp. ....	.95	.80	.65
282087CE	+	LM139J	CDIP-14	Low pwr, low offset volt quad comp.	2.29	1.74	1.30
302501CE	NSC	LM193H	TO-5	Dual low-power comparator	4.65	3.55	2.78
302391CE	+	LM211D	SOIC-8	Hi-speed, strobed diff. comparator .....	.39	.315	.28
302383CE	+	LM211P	DIP-8	Hi-speed, strobed diff. comparator .....	.26	.23	.185
302367CE	+	LM219D	SOIC-14	Dual high speed voltage comparator ..	.85	.79	.74
302287CE	+	LM239D	SOIC-14	Low power low offset volt quad comp. ....	.28	.26	.245
212126CE	+	LM239N	DIP-14	Low power low offset volt quad comp.	\$4.40	.30	.19
213188CE	+	LM306N	DIP-8	Differential comparator w/ strobes .....	.69	.57	.43
193543CE	+	LM311D	SOIC-8	Voltage comparator .....	.22	.19	.14
23528CE	+	LM311N*	DIP-8	Voltage comparator .....	.35	.25	.19
251918CE	+	LP311D	SOIC-8	Voltage comparator .....	.76	.65	.48
239193CE	+	LP311P	DIP-8	Differential comparator .....	.76	.65	.48
245690CE	+	LM319M	SOIC-14	High speed dual comparator .....	.37	.32	.235
23632CE	+	LM319N	DIP-14	High speed dual comparator .....	.41	.36	.27
246537CE	+	LM339AM	SOIC-14	Low power low offset volt quad comp. ....	.65	.39	.35
143888CE	+	LM339AN	DIP-14	Low power quad comparator .....	.29	.23	.193
193594CE	+	LM339M	SOIC-14	Low power low offset volt quad comp. ....	.27	.23	.17
23851CE	+	LM339N**	DIP-14	Quad comparator	*	.19	.165
251977CE	+	LP339M	SOIC-14	Ultra-low power quad comparator .....	.81	.68	.50
121099CE	+	LM339N	DIP-14	Quad low power comparator .....	.38	.32	.24
312047CE	TI	TLC372CD	SOIC-8	LinCMOS dual differential comp .....	.76	.64	.515
312055CE	TI	TLC372CP	DIP-8	LinCMOS dual differential comp .....	.76	.61	.515
314712CE	+	TLC374CD	SOP-14	LinCMOS quad differential comp .....	.85	.71	.62
314704CE	+	TLC374CN	DIP-14	LinCMOS quad differential comp .....	.76	.64	.51
310404CE	+	TS374IN	DIP-14	Quad low power CMOS volt comp .....	.93	.80	.72

*10 pcs. included in Linear kit, below **20 pcs. in Linear kit, below

Linear and Interface IC Kit

SAVE \$60

10 each: TL072CP, TL074CN, TL082CP, TL084CN, MAX232CPE, LM301N, LM308N, LM311N, LM337T, LF353N, LF356N, LM358N, LM386N-1, LM386N-3, LM393N, LF411CN, LF412CN, LM555CN, LM556N, LM723CN, LM1458N, DS1488N, DS1489N, ULN2003AN, ULN2803A, NE5532N, 7808T, 78L12CZ, 7815T, 7905T, 7912CT, 7915CT

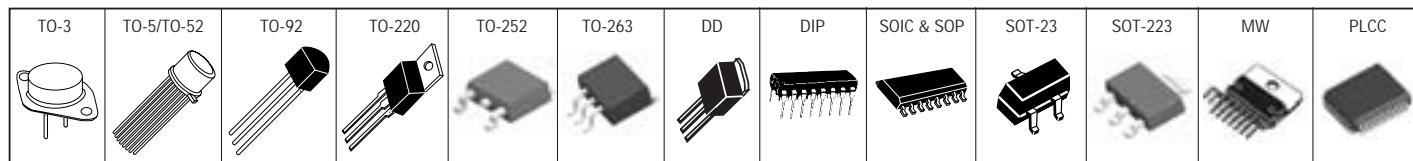
20 each: LM317T, LM324N, LM339N, LM741CN, LM555CN, 7805T, 78L05CZ, 7812T



84988CE

Part No.	Description	Wt. (lbs.)	1	10
84988CE	480 pcs. (40 types) analog IC kit	6.0	\$182.95	\$164.65
130411CE	Refill for 84988CE (480 pcs.)	1.3	169.95	145.95

Thousands of new ICs are in the pipeline for addition and not shown below. Call us to see if you can save 10-20%.



Manufacturer Cross Reference Table

Manufacturer	Code	Manufacturer	Code	Manufacturer	Code	Manufacturer	Code	Manufacturer	Code
Analog Devices	ADI	Linear Technology	LTC	Microchip	MCH	On Semi	ON	Texas Instruments	TI
Anachip	ANA	Maxim Corporation	MAX	National Semiconductor	NSC	ST Micro	ST	Jameco Value Offering	+

Comparators (Continued)

Package (see above)

* Prepackaged: order in increments of 10 or 100

Part No.	Mfr.	Cross Ref.	Pkg.	Description	1	10	100
246633CE	+	LM392M	SOIC-8	Low power op amp/volt comp	\$1.09	\$.93	\$.69
120900CE	+	LM392N	DIP-8	Low power op amp/volt comp	1.35	1.00	.75
246641CE	+	LM393AM	SOIC-8	Low pwr low offset volt dual comp	.43	.31	.27
212177CE	+	LM393AN	DIP-8	Low pwr low offset volt dual comp	*	.175	.135
193631CE	+	LM393D	SOIC-8	Low pwr offset voltage dual comp	.33	.19	.14
24281CE	+	LM393N*	DIP-8	Dual comparator	.20	.18	.17
277093CE	+	LMV393M	SOIC-8	Low volt general purpose dual comp	.85	.63	.46
315328CE	+	TL712CD	SOIC-8	Differential comparator	1.25	1.06	.86
214041CE	TI	TL712CP	DIP-8	Differential comparator	1.15	.54	.49
278256CE	TI	TL714CP	DIP-8	High speed differential comparator	2.65	2.39	2.15
277173CE	NSC	LMC7211AIM	SOIC-8	Comp w/ rail-to-rail input, push pull output	1.65	1.21	.90
277190CE	NSC	LMC7211BIM	SOIC-8	Comp w/ rail-to-rail input, push pull output	1.65	1.21	.85
277114CE	NSC	LMC7221AIM	SOIC-8	Comp w/ rail-to-rail input, open drain output	1.89	1.42	1.08
297844CE	+	MAX902CSD	SOIC-14	Hi-speed low pwr precision volt comp	9.45	7.63	6.87
291143CE	LTC	LT1016CN-8	DIP-8	Fast precision comparator 10ns	4.99	3.55	3.45
312266CE	LTC	LT1016CS8	SOIC-8	Ultra-fast precision 10ns comparator	4.89	3.55	2.76
310279CE	TI	TLV2352ID	SOIC-8	LinCMOS dual low volt diff comp	1.69	1.55	1.49
280006CE	TI	TLV2354IN	DIP-14	LinCMOS quad low volt diff comp	2.85	2.56	2.31
245577CE	+	LM2901M	SOIC-14	Low pwr low offset volt quad comp	.30	.26	.19
23296CE	+	LM2901N	DIP-14	Quad comparator	.25	.21	.156
245614CE	+	LM2903M	SOIC-14	Low power low offset volt dual comp	.25	.21	.16
23309CE	+	LM2903N	DIP-8	Low power low offset volt dual comp	.31	.27	.21
311036CE	TI	TL3016CD	SOIC-8	Ultra-fast low pwr precision comp	1.85	1.47	1.12
278213CE	TI	TL3016ID	SOIC-8	Ultra-fast low pwr precision comp	2.25	2.03	1.83
278230CE	TI	TL3116CD	SOP-8	Ultra-fast low pwr precision comp	1.89	1.68	1.51
278221CE	TI	TL3116ID	SOP-8	Ultra-fast low pwr precision comp	1.99	1.80	1.62
245711CE	+	LM3302D	SOIC-14	Low pwr low offset volt quad comp	.54	.46	.34
107238CE	+	LM3302N	DIP-14	Low pwr low offset volt quad comp	.48	.43	.36
309964CE	+	TL33704CD	SOIC-14	LinCMOS Quad micro volt comp	.99	.82	.68
280137CE	+	TL33704CN	DIP-14	Quad uPwr LinCMOS volt comp	1.09	.92	.84
277202CE	NSC	LMC6772AIM	SOIC-8	Dual uPwr rail-to-rail input w/ open drain output	2.75	2.10	1.63

*10 pcs. in Linear kit, pg 40

Buffers

Package (see above)

Part No.	Mfr.	Cross Ref.	Pkg.	Description	1	10	100
23051CE	+	LH0002CN	DIP-10	General purpose buffer	\$12.25	\$10.25	\$7.95
277552CE	TI	BUF634P	DIP-8	250mA high speed buffer	5.89	5.31	4.78
277544CE	TI	BUF634T	TO-220	250mA high speed buffer	7.85	7.60	6.35
277579CE	TI	BUF634U	SOIC-8	250mA high speed buffer	5.89	5.33	4.79
300249CE	LTC	LT1010CN8	DIP-8	150mA high speed buffer	4.35	4.25	4.05

Op Amps

Package (see above)

Part No.	Mfr.	Cross Ref.	Pkg.	Description	1	10	100
27852CE	+	OP07CP	DIP-8	Ultra-low offset voltage op amp	\$.61	\$.59	\$.56
252988CE	+	OP07DP	DIP-8	Very low offset single bipolar op amp	.68	.58	.43
23106CE	+	LM10CLN	DIP-8	Low voltage (1.1 volt) op amp	1.95	1.79	1.65
120715CE	+	LM10CN	DIP-8	Op amp and voltage reference	2.49	2.12	1.59
120723CE	NSC	LM12CLK	TO-3/4	80W op amp	23.45	21.10	18.99
213090CE	+	TL022CP	DIP-8	Dual low power op amp	.64	.58	.53
252996CE	+	OP27EZ	CDIP-8	Low noise hi spd prec op amp	12.25	11.60	11.02
115300CE	+	OP27EP	DIP-8	Low noise precision op amp	4.19	3.85	3.24
115318CE	+	OP27GP	DIP-8	Low noise prec op amp (-40° to 80°C)	2.09	1.69	1.27
275805CE	TI	OPA27GP	DIP-8	Ultra-low noise precision op amp	2.19	1.98	1.79
275784CE	TI	OPA27GU	SOIC-8	Ultra-low noise precision op amp	2.35	2.09	1.89

Op Amps (Continued)

Package (see above)

Part No.	Mfr.	Cross Ref.	Pkg.	Description	1	10	100
253032CE	+	TL031CD	SOIC-8	Enhanced JFET low pwr/offset op amp	\$.78	\$.66	\$.50
213102CE	+	TL031CP	DIP-8	Enhanced JFET low pwr/offset op amp	.71	.60	.45
279671CE	+	TL032ACP	DIP-8	Enhanced JFET low pwr/offset op amp	1.85	1.67	1.51
253059CE	+	TL032CD	SOIC-8	Enhanced JFET low pwr/offset op amp	.99	.89	.67
213111CE	+	TL032CP	DIP-8	Enhanced JFET low pwr/offset op amp	.74	.69	.64
253235CE	+	TL034CD	SOIC-14	Enhanced JFET low pwr/offset op amp	1.12	.91	.83
214068CE	+	TL034CN	DIP-14	Enhanced low pwr/offset op amp	1.05	.89	.67
275768CE	+	OPA37GP	DIP-8	Ultra-low noise precision op amp	2.45	2.19	1.97
275750CE	+	OPA37GU	SOIC-8	Ultra-low noise precision op amp	2.45	2.19	1.97
213129CE	+	TL052ACP	DIP-8	Enh. JFET low offset op amp	3.95	3.56	3.24
309981CE	+	TL052CD	SOIC-8	Dual Enhanced JFET prec op amp	1.49	1.21	.91
253243CE	+	TL054ACD	SOIC-14	Enhanced JFET low offset op amp	5.39	4.83	4.35
213153CE	+	TL054ACN*	DIP-14	Enhanced JFET low offset op amp	1.99	1.82	1.65
213145CE	+	TL054CN	DIP-14	Enh. JFET low offset op amp	.77	.70	.63
213137CE	+	TL061ACP	DIP-8	Low power JFET input op amp	.34	.31	.28
242106CE	+	TL061IP	DIP-8	Low power JFET op amp	.79	.67	.50
252283CE	+	TL062ACD	SOIC-8	Low power JFET input op amp	.59	.50	.38
33161CE	+	TL062CP	DIP-8	Low power JFET op amp (high slew)	.27	.25	.188
253139CE	+	TL064BCN	DIP-14	Low power JFET input op amp	.69	.59	.44
33179CE	+	TL064CN	DIP-14	Low power JFET input op amp	.56	.45	.345
213081CE	+	TL071ACP	DIP-8	Low noise JFET input op amp	.36	.31	.29
33187CE	+	TL071CP	DIP-8	Low noise JFET op amp	.27	.25	.23
278264CE	+	TLC071CD	SOIC-8	Wide-band, high-output drive op amp	1.09	.94	.75
278272CE	+	TLC071IP	DIP-8	Wide-band, high-output drive op amp	1.19	.99	.80
213073CE	+	TL072ACP	DIP-8	Low noise JFET input op amp	.53	.45	.32
253147CE	+	TL072BCP	DIP-8	Low noise JFET input op amp	.65	.55	.41
193501CE	+	TL072CD	SOIC-8	Low noise JFET dual op amp	\$.39 .35	.30	.22
33195CE	+	TL072CP*	DIP-8	Low noise JFET dual op amp	.26	.25	.24
278299CE	+	TLC072CD	SOIC-8	Wide-band, high-output drive op amp	1.45	1.12	1.06
278281CE	+	TLC072CP	DIP-8	Wide-band, high-output drive op amp	1.39	1.12	.84
213065CE	+	TL074BCN	DIP-14	Low noise JFET input op amp	.51	.43	.35
193519CE	+	TL074CD	SOIC-8	Low noise JFET quad op amp	.50	.42	.315
33216CE	+	TL074CN*	DIP-14	Low noise JFET quad op amp	.48	.43	.345
278336CE	+	TLC074CD	SOIC-14	Wide-band, high-output drive	1.95	1.64	1.43
278328CE	+	TLC074CN	DIP-14	Wide-band, high-output drive	1.95	1.64	1.43
278352CE	+	TL080AIP	DIP-8	Wide-band, high-out drive, impr. offset	1.19	.96	.82
278344CE	+	TL080IP	DIP-8	Wide-band, high-output drive	1.19	.96	.82
213057CE	+	TL081ACP	DIP-8	JFET input op amp, low offset w/ control	.51	.43	.32
253155CE	+	TL081CD	SOIC-8	JFET input op amp	.39	.33	.25
33232CE	+	TL081CP	DIP-8	JFET input op amp, offset control	.31	.30	.26
214076CE	+	TL082ACP	DIP-8	JFET input op amp, low offset	.30	.29	.28
253198CE	+	TL082BCP	DIP-8	JFET input op amp, lowest offset	.56	.42	.37
193527CE	+	TL082CD*	SOIC-8	JFET input dual op amp	.35	.30	.227
33241CE	+	TL082CP*	DIP-8	JFET input dual op amp	.53	.40	.30
214084CE	+	TL084ACN	DIP-14	JFET input op amp	.49	.45	.38
253219CE	+	TL084BCD	SOIC-14	JFET input op amp	.56	.51	.45
193535CE	+	TL084CD	SOIC-14	JFET input quad op amp	.43	.41	.39
33267CE	+	TL084CN*	DIP-14	JFET input quad op amp	.43	.40	.37
282626CE	+	LM124D	SOIC-14	Low power quad op amp mil temp	1.19	1.13	1.05
126818CE	+	LM124J	CDIP-14	Low power quad op amp mil temp	2.19	1.86	1.40
276488CE	TI	OPA124U	SOIC-8	Low noise prec. DIFET op amp	8.45	7.59	6.85
276496CE	TI	OPA124UA	SOIC-8	Low noise prec. DIFET op amp, low offset	9.99	9.02	8.15
275856CE	TI	OPA130UA	SOIC-8	Low power precision FET input	2.99	2.69	2.42
243686CE	+	OPA137PA	DIP-8	FET op amp	1.39	1.31	1.25
243694CE	+	OPA137UA	SOIC-8	FET input op amp	\$1.59 1.37	1.34	1.28

*10 pcs. in Linear kit, pg 40 *Blue Part No. = Limited Quantity Available

Thousands of new ICs are in the pipeline for addition and not shown below. Call us to see if you can save 10-20%.

Op Amps (Continued)

					Package (see pg 43)		
Part No.	Mfr.	Cross Ref.	Pkg.	Description	1	10	100
302480CE	+	LM158H	TO-5	Low power dual op amp	\$4.39	\$3.39	\$2.61
302412CE	+	LM201AD	SOIC-8	Op amp industrial temp	.52	.49	.47
302404CE	+	LM201AN	DIP-8	Op amp industrial temp	.62	.58	.54
302341CE	+	LM224D	SOIC-14	Low power quad industrial temp	.28	.265	.245
302359CE	+	LM224J	CDIP-14	Low power quad industrial temp	1.65	1.40	1.32
212118CE	+	LM224N	DIP-14	Low power quad industrial temp	.28	.24	.18
275813CE	TI	OPA234UA	SOIC-8	Low pwr precision single supply	2.15	1.92	1.73
315230CE	+	TLC252BCD	SOIC-8	LinCMOS dual op amp	2.19	1.95	1.48
315221CE	+	TLC252BCP	DIP-8	LinCMOS dual op amp	2.19	2.16	2.14
302261CE	+	LM258D	SOIC-8	Low pwr dual op amp industrial temp	.26	.25	.23
212142CE	+	LM258N	DIP-8	Low pwr dual op amp industrial temp	.25	.235	.22
279742CE	TI	TLC271CD	SOIC-8	LinCMOS prog low pwr op amp	.83	.63	.48
279734CE	TI	TLC271CP	DIP-8	LinCMOS prog low pwr op amp	.55	.50	.45
279806CE	+	TLC272CD	SOIC-8	LinCMOS prec. dual op amp	.79	.60	.45
143917CE	+	TLC272CP	DIP-8	LinCMOS prec. dual op amp	.72	.61	.46
280233CE	TI	TLC272CD	SOIC-8	LinCMOS prec. dual op amp, high gain	.68	.57	.46
280225CE	TI	TLC272CP	DIP-8	LinCMOS prec. dual op amp, high gain	.56	.51	.42
280188CE	TI	TLC272MCD	SOIC-8	LinCMOS prec. dual op amp, med. gain	.68	.57	.46
280170CE	TI	TLC272MCP	DIP-8	LinCMOS prec. dual op amp, med. gain	.68	.57	.46
242000CE	+	TLC274ACN	DIP-14	Quad precision op amp, low offset	.79	.66	.60
242018CE	+	TLC274BCN	DIP-14	Quad prec op amp, lower offset	\$4.05	.82	.78
242026CE	+	TLC274CN	DIP-14	CMOS precision quad op amp	.57	.48	.36
242034CE	+	TLC274IN	DIP-14	Quad CMOS op amp	.72	.61	.46
280217CE	TI	TLC274L4CD	SOIC-14	LinCMOS prec. quad op amp, high gain	.81	.68	.55
280209CE	TI	TLC274L4CN	DIP-14	LinCMOS prec. quad op amp, high gain	.60	.55	.47
280161CE	TI	TLC274M4CD	SOIC-14	LinCMOS prec. quad op amp, med. gain	.81	.68	.55
312784CE	+	TLC277CD	SOIC-8	LinCMOS prec. dual op amp, low offset	1.49	1.37	1.31
280241CE	+	TLC277CP	DIP-8	Prec. dual op amp, low offset	1.55	1.23	.98
280196CE	TI	TLC277L7CD	SOIC-8	Prec. dual op amp, high gain, low offset	1.39	1.24	1.12
280145CE	TI	TLC277M7CD	SOIC-8	Prec. dual op amp, med. gain, low offset	1.39	1.24	1.12
280153CE	TI	TLC277M7CP	DIP-8	Prec. dual op amp, med. gain, low offset	1.39	1.24	1.12
245665CE	+	LM301AH	TO-5/8	Operational amplifier	2.15	1.64	1.27
212151CE	+	LM301AN	DIP-8	Operational amplifier	.47	.42	.38
245673CE	+	LM308AH	TO-5/8	Precision op amplifier	3.29	2.51	1.95
23464CE	+	LM308N*	DIP-8	Precision op amplifier	4.49	3.99	3.49
245681CE	+	LM318M	SOIC-8	Precision high speed op amplifier	1.15	.98	.73
23608CE	+	LM318N	DIP-8	Precision high speed op amplifier	.59	.54	.48
245702CE	+	LM324AM	SOIC-14	Low power quad op amp, impr. offset	.29	.25	.18
212169CE	+	LM324AN	DIP-14	Low power quad op amp, impr. offset	.25	.23	.20
86721CE	+	LM324D	SOIC-14	Low power quad op amplifier	.23	.20	.18
23683CE	+	LM324N**	DIP-14	Low power quad op amplifier	.28	.24	.21
192559CE	+	LP324N	DIP-14	Micropower quad op amplifier	.70	.60	.45
241963CE	+	LMV324M	SOIC-14	Low voltage, general purpose	.67	.57	.43
245438CE	+	LF347BD	SOIC-14	Quad JFET input (wide B/W, impr. offset)	\$4.35	1.18	1.14
245420CE	+	LF347M	SOIC-14	Quad JFET input (wide bandwidth)	.79	.67	.50
22904CE	+	LF347N	DIP-14	Quad JFET input op amp (wide band)	.36	.30	.28
275776CE	+	OPA347PA	DIP-8	Micropower rail-to-rail op amp	1.25	1.06	.86
246570CE	+	LM348M	SOIC-14	Quad 741 op amplifier	.89	.71	.52
23915CE	+	LM348N	DIP-14	Quad 741 op amp (UPC4741C)	.37	.30	.21
22912CE	+	LF351N	DIP-8	BIFET op amplifier	.39	.35	.29
245518CE	+	LF353D	SOIC-8	Dual JFET input (wide bandwidth)	.37	.31	.232
22939CE	+	LF353N*	DIP-8	Dual BIFET (comp w/ TL082CP)	.39	.37	.35
193607CE	+	LF356M	SOIC-8	JFET input op amplifier (wide band)	.77	.65	.49
22971CE	+	LF356N*	DIP-8	JFET input op amplifier (wide band)	.79	.67	.49
22998CE	+	LF357N	DIP-8	JFET input op amp (wide band decomp.)	2.55	2.33	1.70
246588CE	+	LM358AM	SOIC-8	Low power dual op amp, impr. offset	.23	.22	.20
120862CE	+	LM358AN	DIP-8	Low power dual (improved 358N)	.29	.25	.23
193615CE	+	LM358D	SOIC-8	Low power dual op amplifier	.21	.18	.13
23966CE	+	LM358N*	DIP-8	Low power dual op amplifier	.27	.23	.20
277106CE	+	LMV358M	SOIC-8	Low volt rail-to-rail output dual	.85	.64	.46
276736CE	+	MAX410CPA	DIP-8	Single 28MHz low noise, low volt prec.	5.29	4.20	3.79
119941CE	+	LF411ACN	DIP-8	Low offset low drift JFET input	2.95	2.62	2.00
23018CE	+	LF411CN*	DIP-8	Low offset drift JFET input op amp	1.21	.90	.66
193640CE	+	LF412CD*	SOIC-8	Low offset drift JFET input dual	.27	.24	.22
23026CE	+	LF412CN*	DIP-8	Low offset drift JFET input dual	1.03	.76	.56

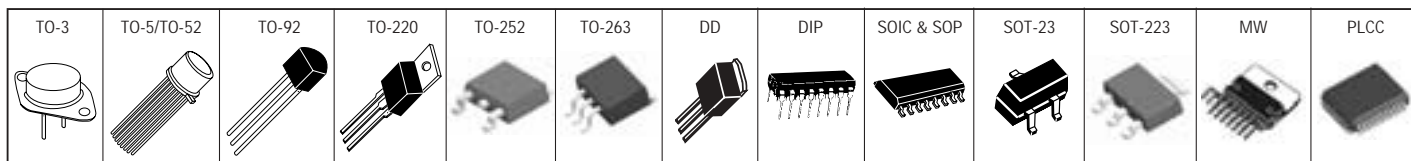
*10 pcs. in Linear kit, pg 40 **20 pcs. in Linear kit, pg 40 + Jameco Value Offering
 ☺ Blue Part No. = Limited Quantity Available

Op Amps (Continued)

					Package (see pg 43)		
Part No.	Mfr.	Cross Ref.	Pkg.	Description	1	10	100
106681CE	+	LF442CN	DIP-8	Dual low power JFET input op amp	\$1.35	\$.99	\$.73
119984CE	+	LF444ACN	DIP-14	Quad low pwr JFET input op amp, low Vos	1.99	1.85	1.78
119992CE	+	LF444CN	DIP-14	Quad low pwr JFET input op amp	1.45	1.09	.79
312805CE	ADI	OP467GP	DIP-14	Quad precision high speed op amp	12.09	11.48	10.91
312813CE	ADI	OP467GS	SOIC-16	Quad precision high speed op amp	9.89	8.52	7.49
276613CE	MAX	MAX474CSA	SOIC-8	Dual 10MHz single supply op amp	5.09	4.03	3.63
276541CE	MAX	MAX492CPA	DIP-8	Dual upwr, single supply rail-to-rail	5.09	4.05	3.63
276533CE	MAX	MAX492CSA	SOIC-8	Dual upwr, single supply rail-to-rail	5.09	3.86	2.50
311773CE	MCH	MCP601-I/P	DIP-8	2.8MHz, 2.7V-5.5V single supply CMOS	.60	.55	.525
311749CE	MCH	MCP602-I/P	DIP-8	Dual, 2.8MHz, 2.7V-5.5V single supply CMOS	.72	.71	.68
311765CE	MCH	MCP602-I/SN	SOIC-8	Dual, 2.8MHz, 2.7V-5.5V single supply CMOS	.77	.71	.68
311731CE	MCH	MCP603-I/P	DIP-8	Single w/ CS, 2.8MHz, 2.7V-5.5V single CMOS	.63	.58	.551
311239CE	MCH	MCP6S21-I/P	DIP-8	1-ch PGA low-gain single-ended rail-to-rail I/O	1.69	1.65	1.60
311255CE	MCH	MCP6S22-I/P	DIP-8	2-ch PGA low-gain single-ended rail-to-rail I/O	1.95	1.89	1.82
311247CE	MCH	MCP6S22-I/SN	SOIC-8	2-ch PGA low-gain single-ended rail-to-rail I/O	2.09	1.99	1.89
310367CE	ADI	AD626AN	DIP-8	Low-cost single supply diff amplifier	5.75	5.69	5.35
313314CE	ADI	AD626AR	SOIC-8	Low-cost single supply diff amplifier	5.95	5.62	5.34
311221CE	MCH	MCP6S28-I/P	DIP-8	8-ch prog. low-gain singl-ended rail-to-rail I/O	3.35	3.18	3.03
267266CE	+	LMC660CM	SOIC-14	CMOS quad operational amplifier	1.45	1.08	.81
143976CE	+	LMC660CN	DIP-14	CMOS quad operational amplifier	1.65	1.23	.91
120926CE	+	LM675T	TO-220/5	Power op amplifier	4.75	4.02	3.98
24491CE	+	LM733CN	DIP-14	Differential amplifier	1.15	.99	.89
24521CE	+	LM741CH	TO-5/8	Op amplifier	2.75	2.10	1.62
24539CE	+	LM741CN**	DIP-8	Op amplifier	.29	.25	.19
24563CE	+	LM747CN	DIP-14	Dual 741 op amplifier	4.19	3.85	3.39
299938CE	+	LM747H	TO-10	Dual op amplifier	3.79	3.29	3.07
311132CE	ADI	AD811AN	DIP-8	High performance video op amp	5.75	5.24	4.84
311087CE	ADI	AD812AN	DIP-8	Dual low power current feedback	5.29	5.19	4.92
277085CE	NSC	LMV824M	SOIC-14	5MHz quad low pwr, low volt, rail-to-rail	1.09	.97	.92
246668CE	NSC	LM837M	SOIC-14	Low noise quad operational amp	1.29	1.00	.82
143896CE	NSC	LM837N	DIP-14	Low noise quad operational amp	1.35	1.12	.82
239222CE	LTC	LT1001CN8	DIP-8	Precision op amplifier	2.05	1.65	1.30
239231CE	LTC	LT1002CN	DIP-14	Dual matched precision op amp	4.45	3.78	2.84
239214CE	LTC	LT1006CN8	DIP-8	Precision op amplifier	2.59	2.21	1.66
300231CE	LTC	LT1007CS8	SOIC-8	Low noise high speed precision	3.75	2.53	2.00
239273CE	LTC	LT1012CN8	DIP-8	Picoamp input curr, microvolt offset, low noise	4.35	3.32	2.57
239169CE	+	LT1013CP	DIP-8	Dual precision op amplifier	1.25	1.10	1.00
252005CE	+	LT1013DD	SOIC-8	Dual precision op amplifier	.86	.73	.55
239177CE	+	LT1014DN	DIP-14	Quad precision op amplifier	3.29	2.99	2.89
300193CE	LTC	LTC1050CN8	DIP-8	Precision zero-drift w/ int. cap	3.65	2.48	2.09
193682CE	+	LM1458M	SOIC-8	Dual op amplifier	.26	.22	.165
23131CE	+	LM1458N*	DIP-8	Dual op amplifier	.29	.26	.20
302498CE	+	LM1815N-ND	DIP-14	Adaptive variable sensor amp	3.19	2.45	1.89
310172CE	TI	TLE2021CD	SOIC-8	Excalibur hi speed low pwr prec	1.05	.86	.79
280129CE	TI	TLE2021CP	DIP-8	Excalibur hi speed low pwr prec	1.09	.92	.74
310236CE	TI	TLE2022CD	SOIC-8	Excal hi spd LP dual prec op amp	1.69	1.39	1.30
280111CE	TI	TLE2022CP	DIP-8	Excal hi spd LP dual prec op amp	1.45	1.30	1.17
280102CE	TI	TLE2024CDW	SOIC-16	Excal hi spd LP quad prec op amp	2.85	2.56	2.29
280090CE	TI	TLE2024CN	DIP-14	Excal hi spd LP quad prec op amp	2.79	2.53	2.28
310658CE	TI	TLE2027CD	SOIC-8	Excal hi spd LP low offset prec op amp	1.75	1.65	1.55
310682CE	TI	TLE2072CD	SOIC-8	Excalibur low noise hi speed JFET input	2.05	1.74	1.31
310674CE	TI	TLE2072CP	DIP-8	Excalibur low noise hi speed JFET input	1.89	1.85	1.77
275848CE	TI	OPA2131UJ	SOIC-8	General purpose FET-input op amp	2.89	2.59	2.34
279996CE	TI	TLV2450CP	DIP-8	Rail-to-rail I/O op amp w/ shutdown	1.25	1.01	.75
279988CE	TI	TLV2451CD	SOIC-8	Rail-to-rail I/O op amp	1.29	1.15	1.04
279970CE	TI	TLV2451CP	DIP-8	Rail-to-rail I/O op amp	1.15	1.00	.90
272209CE	TI	TLV2454CD	SOIC-14	4-ch r-r I/O op amp	1.95	1.76	1.59
279961CE	TI	TLV2454CN	DIP-14	4-ch r-r I/O op amp	2.05	1.83	1.64
310308CE	TI	TLV2474CD	SOIC-14	Quad LP r-r input/output w/ shdwn	2.09	1.79	1.73
279945CE	TI	TLV2474CN	DIP-14	2.8MHz r-r I/O hi drive w/shdwn	2.05	1.74	1.57
279953CE	TI	TLV2474IN	DIP-14	2.8MHz r-r I/O hi drive w/shdwn, ext. temp.	2.15	1.83	1.64
315096CE	+	TLC272LBCD	SOIC-8	LinCMOS precision dual op amp	.75	.69	.68
315088CE	+	TLC272LBCP	DIP-8	LinCMOS precision dual op amp	.69	.58	.47
315061CE	+	TLC274ACD	SOIC-14	LinCMOS precision quad op amp	.79	.66	.538
315053CE	+	TLC274ACN	DIP-14	LinCMOS precision quad op amp	.71	.60	.57
245606CE	+	LM2902M	SOIC-14	Low power quad op amplifier	.25	.21	.16
57007CE	+	LM2902N	DIP-14	Low power quad op amplifier	.25	.23	.22

*10 pcs. in Linear kit, pg 40 **20 pcs. in Linear kit, pg 40 + Jameco Value Offering

Thousands of new ICs are in the pipeline for addition and not shown below. Call us to see if you can save 10-20%.



Manufacturer Cross Reference Table

Manufacturer	Code	Manufacturer	Code	Manufacturer	Code	Manufacturer	Code	Manufacturer	Code
Analog Devices	ADI	Linear Technology	LTC	Microchip	MCH	On Semi	ON	Texas Instruments	TI
Anachip	ANA	Maxim Corporation	MAX	National Semiconductor	NSC	ST Micro	ST	Jameco Value Offering	+

Op Amps (Continued)

Package (see above)

Part No.	Mfr.	Cross Ref.	Pkg.	Description	1	10	100
245622CE	+	LM2904M	SOIC-8	Low power dual op amplifier	\$.24	\$.20	<u>\$.15</u>
121005CE	+	LM2904N	DIP-8	Low power dual op amplifier .....	.22	.19	<u>.14</u>
278141CE	TI	THS3001CD	SOIC-8	420MHz hi-speed curr. feedback	5.89	5.32	4.79
12116CE	+	CA3080E	DIP-8	Op transconductance amp (100135) ..	1.99	1.79	1.60
12183CE	+	CA3130E	DIP-8	CMOS op amplifier .....	.81	.78	.71
12204CE	+	CA3140E	DIP-8	Bi-MOS op amplifier .....	.59	.55	.51
246721CE	+	MC3303D	SOIC-14	Quad op amplifier .....	.43	.32	.25
212193CE	+	MC3403N	DIP-14	Quad bipolar op amplifier .....	.43	.37	.27
246617CE	+	LM3900D	SOIC-14	Quad amplifier .....	.86	.73	<u>.55</u>
24168CE	+	LM3900N	DIP-14	Quad amplifier .....	.77	.65	.53
239185CE	TI	THS4031CD	SOIC-8	100MHz op amp	4.09	3.48	3.24
278150CE	TI	THS4032CD	SOIC-8	100MHz low noise hi-speed amp	6.49	5.31	5.26
278176CE	TI	THS4082CD	SOP-8	175MHz LP hi-speed amp	5.69	5.14	4.63
278168CE	TI	THS4082ID	SOP-8	175MHz LP hi-speed amp, I-temp.	5.89	5.32	4.79
279929CE	TI	TLV4112CD	SOIC-8	High output drive w/ shutdown	1.95	1.58	1.35
29356CE	+	RC4136N	DIP-14	Quad op amp (XR4136) .....	.74	.68	.62
275741CE	+	OPA4137PA	DIP-14	Low cost FET input op amp	2.35	2.11	1.90
121072CE	+	LM4250CN	DIP-8	Programmable op amp	\$.15 .75	.64	<u>.48</u>
251256CE	TI	TLC4501ACD	SOIC-8	Prec. CMOS r-r output, low offset op amp ..	2.49	2.35	2.09
300767CE	TI	TLC4501AID	SOP-8	Prec. CMOS r-r output, low offset	2.59	2.20	1.85
251264CE	TI	TLC4503CD	SOIC-8	Prec. CMOS r-r output	2.35	2.25	2.02
251281CE	TI	TLC4502AID	SOIC-8	Dual prec. CMOS r-r output, low offset	3.69	3.58	3.45
310092CE	TI	TLC4502AQDSOP-8		Dual prec. CMOS r-r output, low offset	3.89	3.68	3.45
251272CE	TI	TLC4502ID	SOIC-8	Dual prec. CMOS r-r output	3.75	3.35	3.01
254861CE	FSC	KA4558	DIP-8	Dual op amplifier .....	.41	.336	.252
251150CE	+	MC4558CD	SOIC-8	Wide bandwidth dual bipolar op amp .....	.43	.36	<u>.27</u>
251125CE	+	MC4558CN	DIP-8	Wide bandwidth dual bipolar op amp .....	.31	.29	.27
311933CE	+	EL5100IS	SOIC-8	200MHz slew enhanced volt feedback	2.45	2.30	2.10
311941CE	+	EL5106IS	SOIC-8	350MHz fixed gain amplifier w/ enable	2.29	2.04	1.81
311925CE	+	EL5108IS	SOIC-8	450MHz fixed gain amplifier w/ enable	2.55	2.24	1.98
252970CE	+	NE5532AP	DIP-8	Dual lower noise op amplifier .....	.69	.58	.47
27385CE	+	NE5532N*	DIP-8	Dual low noise op amplifier .....	.72	.55	.415
27406CE	+	NE5534	DIP-8	Low noise op amplifier .....	.78	.66	.54
193746CE	+	NE5534D	SOIC-8	Low noise op amplifier .....	.75	.47	.445
311001CE	MCH	MCP6002-I/P	DIP-8	1MHz bandwidth low power op amp ....	.45	.42	.40
310990CE	MCH	MCP6002-I/5N	SOIC-8	1MHz bandwidth low power op amp ....	.43	.415	.40
311714CE	MCH	MCP6021-I/5N	SOIC-8	2.5V, 10MHz r-r input/output	1.27	1.16	1.10
311722CE	MCH	MCP6021-I/P	DIP-8	2.5V, 10MHz r-r input/output	1.27	1.24	1.18
266950CE	NSC	LMC6035BP	µSMD-8	Low pwr 2.7V single supply CMOS	1.59	1.19	.87
301241CE	NSC	LMC6035IM	SOIC-8	Low pwr 2.7V single supply CMOS	2.05	1.89	1.85
267039CE	NSC	LMC6041IN	DIP-8	CMOS single micropower op amp	1.30	1.11	<u>.83</u>
302121CE	NSC	LM6132AIM	SOIC-8	Dual LP r-r in/out, 10MHz, lower VOS ...	3.59	2.76	2.55
302105CE	NSC	LM6132BIM	SOIC-8	Dual LP r-r in/out, 10MHz	2.75	2.08	1.87
302113CE	NSC	LM6132BIN	DIP-8	Dual LP r-r in/out, 10MHz	2.69	2.25	2.09
302009CE	NSC	LM6134AIM	SOIC-14	Quad LP r-r in/out, 10MHz, lower VOS ...	3.85	3.19	2.95
302084CE	NSC	LM6134BIM	SOIC-14	Quad LP r-r in/out, 10MHz	3.15	2.59	2.45
302076CE	NSC	LM6134BIN	DIP-14	Quad LP r-r in/out, 10MHz	3.15	2.59	2.45
302068CE	NSC	LM6142AIM	SOIC-8	Dual r-r in/out, 17MHz	4.65	3.85	3.62
301997CE	NSC	LM6144BIM	SOIC-14	Quad r-r in/out, 17MHz	5.55	4.59	4.25
301989CE	NSC	LM6152ACM	SOIC-8	Dual r-r in/out, 75MHz GBW	3.99	3.29	3.10
301891CE	NSC	LM6171AIM	SOIC-8	Hi speed, LP low distortion, lower VOS ...	2.99	2.49	2.35
301882CE	NSC	LM6171BIM	SOIC-8	Hi speed, LP low distortion volt feedback ..	2.59	2.14	2.01
301903CE	NSC	LM6171BIN	DIP-8	Hi speed, LP low distortion volt feedback ..	2.59	1.97	1.53
311992CE	NSC	LM6181M	SOIC-8	100mA, 100MHz current feedback	2.35	1.79	1.70
301874CE	NSC	LM6181IN	DIP-8	100mA, 100MHz current feedback	2.79	2.19	1.79

*10 pcs. in Linear kit, pg 40

FSC = Fairchild Semiconductor

Op Amps (Continued)

Package (see above)

Part No.	Mfr.	Cross Ref.	Pkg.	Description	1	10	100
267063CE	NSC	LMC6442AIM	SOIC-8	Dual µpwr single-supply r-r, lower VOS	\$2.39	\$2.06	\$1.85
301436CE	NSC	LMC6442IM	SOIC-8	Dual µpwr r-r output single supply	2.55	1.92	1.62
301364CE	NSC	LMC6442IN	DIP-8	Dual µpwr r-r output single supply	2.75	2.05	1.75
267119CE	NSC	LMC6462AIM	SOIC-8	Dual µpwr singl-supply r-r I/O CMOS, lower VOS	2.39	2.16	1.95
126906CE	NSC	LMC6462AIN	DIP-8	µpwr r-r I/O CMOS op amp, lower VOS	2.59	2.25	2.02
126893CE	NSC	LMC6482AIN	DIP-8	CMOS dual r-r input/output, lower VOS	2.09	1.56	1.16
251168CE	NSC	LMC6482AIM	SOIC-8	CMOS dual r-r input/output, lower VOS	1.79	1.52	<u>1.14</u>
267127CE	NSC	LMC6482IM	SOIC-8	CMOS dual r-r I/O op amp	1.69	1.27	.95
267223CE	NSC	LMC6482IN	DIP-8	CMOS dual r-r I/O op amp	1.89	1.40	1.04
267240CE	NSC	LMC6484AIM	SOIC-14	CMOS quad r-r I/O op amp, lower VOS	3.49	2.69	2.05
301356CE	NSC	LMC6484AIN	DIP-14	CMOS quad r-r I/O op amp, lower VOS	4.09	3.13	2.42
267258CE	NSC	LMC6484IM	SOIC-14	CMOS quad r-r I/O op amp	3.79	3.41	2.35
311811CE	NSC	LMH6702MA	SOIC-8	Single ultra low-distortion, wideband	2.99	2.48	2.40
251871CE	NSC	LMC7101AIMS	SOT-23/5	Tiny low power w/ r-r I/O	1.13	.96	<u>.72</u>
251900CE	NSC	LMC7111AIN	DIP-8	Tiny CMOS op amp w/ r-r I/O	1.55	1.32	<u>.99</u>
301807CE	NSC	LM7171AIM	SOIC-8	Hi speed, hi output current volt feedback ..	2.89	2.25	1.98
301794CE	NSC	LM7171AIN	DIP-8	Hi speed, hi output current volt feedback ..	2.89	2.25	1.98
301751CE	NSC	LM7171BIM	SOIC-8	Hi speed hi output current volt feedback ...	2.55	2.12	1.98
301823CE	NSC	LM7171BIN	DIP-8	Hi speed hi output current volt feedback ...	2.55	1.96	1.75
301840CE	NSC	LM7121IM	SOIC-8	235MHz tiny low pwr volt feedback ...	2.59	1.95	1.49
301701CE	NSC	LM7301IM	SOIC-8	Low pwr r-r in/pout, 4MHz GBW	2.09	1.56	1.17
301655CE	NSC	LM7301IM5	SOT-23/5	Low pwr r-r in/pout, 4MHz GBW	1.99	1.51	1.12
315281CE	+	ICL7611DCBA	SOIC-8	1.4MHz LP CMOS op amp .....	.85	.83	.79
315272CE	+	ICL7611DCPA	DIP-8	1.4MHz LP CMOS op amp .....	.76	.63	.58
311159CE	ADI	AD8002AR	SOIC-8	Dual 600MHz, 50mW, curr. feedback ...	4.85	4.19	3.95
312776CE	ADI	AD8042AR	SOIC-8	Low-cost, high speed r-r	4.65	3.58	2.97
312750CE	ADI	AD8052AR	SOIC-8	Low-cost high speed r-r	2.55	2.08	1.75
312768CE	ADI	AD8052ARM	µSO-8	Low-cost high speed r-r	3.35	2.54	2.11
255257CE	ADI	AD8091AR	SOIC-8	Low-cost high speed r-r	1.35	1.20	1.08
255231CE	ADI	AD8092ARM	µSO-8	Low-cost high speed r-r	1.45	1.30	1.18
311095CE	ADI	AD8307AN	DIP-8	Low-cost DC-500MHz 92dB logarithmic	13.29	12.63	12.00
311116CE	ADI	AD8307AR	SOP-8	Low-cost DC-500MHz 92dB logarithmic	9.45	7.85	7.75
255206CE	ADI	AD8510AR	SOIC-8	Prec. low noise/input bias curr. JFET input	2.45	2.18	1.96
279591CE	ADI	AD8515ART	SOT-23/5	1.8V low pwr CMOS r-r I/O .....	.98	.83	.67
192532CE	+	LM13700N	DIP-16	Dual op transcon. w/ diodes/buffer	1.49	1.19	.79
277704CE	+	MC33202P	DIP-8	Low voltage r-r op amp	1.15	.97	.78
251117CE	+	MC34072D	SOIC-8	Single supply 3V-44V op amp .....	.63	.54	<u>.40</u>
251061CE	+	MC34072P	DIP-8	Single supply 3V-44V op amp .....	.91	.85	.79

Linear Series

Package (see above)

Part No.	Mfr.	Cross Ref.	Pkg.	Description	1	10	100
25751CE	+	MF10CN	DIP-20	General purpose dual active filter	\$3.09	\$2.37	\$1.95
16301CE	+	DS0026CN	DIP-8	Dual mos clk. driver (5MHz)(TC426CPA) ...	4.95	4.45	3.99
239281CE	+	DG201BDJ	DIP-16	Quad analog switch	1.35	1.26	1.11
239290CE	+	DG202BDJ	DIP-16	Quad analog switch	1.99	1.90	1.81
239311CE	+	DG211BDJ	DIP-16	Quad analog switch	1.36	1.16	.87
239392CE	+	DG211CJ	DIP-16	SPST quad channel analog switch	1.99	1.75	1.49
302332CE	+	LM231AN	DIP-8	Precision voltage to frequency con	7.35	7.15	6.99
302316CE	+	LM231N	DIP-8	Precision voltage to frequency con	5.29	4.25	3.84
302324CE	+	LM234Z-3	TO-92	3-terminal adjustable current source	2.55	1.95	1.50
302308CE	+	LM234Z-6	TO-92	3-terminal adjustable current source	1.65	1.22	.91
302295CE	+	LM236D	SOIC-8	2.5V voltage reference .....	.75	.643	<u>.482</u>
291080CE	+	LM285BYZ-1.2	TO-92	1.2V voltage reference diode, 1% tol.	1.75	1.32	1.11
297801CE	+	LM285BYZ-2.5	TO-92	2.5V voltage reference diode	1.89	1.46	1.14
312354CE	+	LM285M	SOIC-8	Adjustable micropower volt reference	.96	.71	.527

Thousands of new ICs are in the pipeline for addition and not shown below. Call us to see if you can save 10-20%.

Linear Series (Continued)

Package (see pg 45)

Part No.	Mfr.	Cross Ref.	Pkg.	Description	1	10	100
312362CE	+	LM285M-1.2	SOIC-8	1.2V micropower volt reference diode	\$.79	\$.71	\$.52
312371CE	+	LM285M-2.5	SOIC-8	2.5V micropower volt reference diode	.79	.71	.527
291055CE	+	LM285Z-1.2	TO-92	1.2V voltage reference, 20mA	.47	.382	.336
291071CE	+	LM285Z-2.5	TO-92	2.5V voltage reference, 10mA	.67	.64	.63
245403CE	ST	L298N	MW-15	Dual full-bridge driver (MULTIWATT-15 pkg.)	2.95	2.55	2.35
245446CE	+	MAX301CPE	DIP-16	Precision dual hi speed analog switch	3.65	3.30	2.82
245456CE	+	MAX301CSE	SOIC-16	Precision dual hi speed analog switch	4.39	3.90	3.42
245462CE	+	MAX303CPE	DIP-16	Precision dual hi speed analog switch	7.99	7.30	6.22
277051CE	+	MAX303CSE	SOIC-16	Precision dual hi speed analog switch	10.65	8.36	7.53
297828CE	+	LM331AN	DIP-8	5V precision voltage-frequency con.	6.75	6.39	6.08
23721CE	+	LM331N	DIP-8	Prec volt to freq convtr (150ppm/°C)	2.19	1.69	1.30
245729CE	+	LM334M	SOIC-8	3-terminal adjustable current source	.96	.82	.61
23739CE	+	LM334Z	TO-92	Adjust current source	.72	.65	.47
291135CE	+	LM336BZ-2.5	TO-92	2.5V voltage reference diode	1.55	1.16	.87
297676CE	+	LM336BZ-5.0	TO-92	5V voltage reference diode	1.55	1.16	.87
193578CE	+	LM336M-2.5	SOIC-8	Precision 2.5V shunt regulator diode	.69	.59	.40
23771CE	+	LM336Z-2.5	TO-92	Voltage reference (2.5V)	.50	.46	.245
120871CE	+	LM385BZ-1.2	TO-92	Voltage reference diode (1.2V ±1.5%)	.51	.43	.33
120889CE	+	LM385BZ2.5	TO-92	Voltage reference diode (2.5V ±1.5%)	.51	.47	.42
24117CE	+	LM385Z1.2	TO-92	Micropower volt ref diode (1.2V)	.49	.45	.40
24109CE	+	LM385Z-2.5	TO-92	Voltage reference diode (2.5V ±3%)	.57	.55	.395
23000CE	+	LF398N	DIP-8	Sample and hold circuit	1.09	1.00	.75
309833CE	+	DG403DJ	DIP-16	Improved dual hi speed analog switch	3.75	3.54	3.31
245454CE	+	DG403DY	SOIC-16	Imprvd dual hi spd analog switch	\$4.69	1.19	.76
245489CE	+	DG405DJ	DIP-16	Improved dual hi speed analog switch	3.25	2.97	2.56
256541CE	+	DG406DJ	DIP-28	Imprvd 16-ch/dual 8-ch CMOS analog mux.	4.64	3.94	2.96
272161CE	+	DG407DJ	DIP-28	Imprvd 16-ch/dual 8-ch CMOS analog mux.	5.69	5.11	4.61
288227CE	+	DG407DN	PLCC-28	8-channel analog multiplexer	6.69	6.34	5.45
256532CE	+	DG408DJ	DIP-16	Imprvd 8-ch/dual 4-ch CMOS analog mux.	1.65	1.55	1.46
279582CE	+	DG408DY	SOIC-16	Imprvd 8-ch/dual 4-ch CMOS analog mux.	1.59	1.55	1.27
288243CE	+	DG409BN	DIP-16	4-channel analog multiplexer	4.25	4.09	3.87
288260CE	+	DG409DJ	DIP-16	4-channel analog multiplexer	1.65	1.35	1.27
279574CE	+	DG409DY	SOIC-16	Imprvd 8-ch/dual 4-ch CMOS analog mux.	1.55	1.47	1.27
243643CE	+	DG411DJ	DIP-16	Quad precision analog switch	1.75	1.65	1.50
243651CE	+	DG411DY	SOIC-16	Quad analog switch	1.69	1.66	1.59
256516CE	+	DG412DJ	DIP-16	Improved quad SPST analog switch	1.57	1.33	1.00
245358CE	+	DG412DY	SOIC-16	Improved quad SPST analog switch	1.55	1.32	1.02
272137CE	+	DG413DY	SOIC-16	Improved quad SPST analog switch	1.49	1.43	1.37
279540CE	+	DG419DJ	DIP-8	Improved SPST/SPDT analog switch	1.95	1.73	1.69
246561CE	+	DG419DY	SOIC-8	Improved SPST/SPDT analog switch	1.15	.98	.73
33347CE	+	TL431CLP	TO-92	Program precision reference	.31	.265	.19
279558CE	+	DG441DJ	DIP-16	Improved quad SPST analog switch	1.65	1.48	1.22
256495CE	+	DG442DJ	DIP-16	Improved quad SPST analog switch	1.65	1.48	1.35
256508CE	+	DG442DY	SOIC-16	Improved quad SPST analog switch	1.08	.92	.69
256487CE	+	DG444DJ	DIP-16	Improved quad SPST analog switch	1.39	1.18	.89
256479CE	+	DG444DY	SOIC-16	Improved quad SPST analog switch	1.34	1.14	.85
256452CE	+	DG445DJ	DIP-16	Improved quad SPST analog switch	1.35	1.15	.86
256444CE	+	DG445DY	SOIC-16	Improved quad SPST analog switch	1.26	1.07	.80
33355CE	+	TL494CN	DIP-16	Control circuit pulse-width-modulated	.43	.325	.265
288391CE	+	DG506AKN	DIP-28	1-channel analog multiplexer	10.49	9.99	9.49
86799CE	+	LM555CM	SOIC-8	Timer (NE555D)	.35	.30	.25
27422CE	+	LM555CN*	DIP-8	Timer (MC1455P/NE555V)	.29	.23	.20
246676CE	+	LM555CM	SOIC-8	CMOS 555 timer	.65	.47	.35
126797CE	+	LM555CN*	DIP-8	CMOS 555 timer	.54	.49	.44
193658CE	+	LM556CM	SOIC-14	Dual 555 timer	.75	.41	.26
24328CE	+	LM556N*	DIP-14	Dual 555 timer	.88	.65	.48
27457CE	+	NE558N	DIP-16	Quad timer (NE558C)	.68	.62	.52
27473CE	+	NE564N	DIP-16	High frequency phase locked loop	1.95	1.49	1.05
24352CE	+	LM565N	DIP-14	Phased locked loop	1.59	1.20	.90
193666CE	+	LM567CM	SOIC-8	Tone decoder	.33	.28	.21
24395CE	+	LM567CN	DIP-8	Tone decoder	.48	.45	.33
277691CE	+	LM567CM	SOIC-8	Low-power tone decoder	1.65	1.29	.97
246650CE	+	LM567CN	DIP-8	Tone decoder	1.45	1.23	.92
243387CE	+	LM568CN	DIP-8	Low power phase-locked loop	1.65	.88	.80
27490CE	+	NE571N	DIP-16	Compander, subscriber	3.29	2.99	2.69
287700CE	+	AD580JH	TO-52	2.5V volt reference high precision	3.45	2.89	2.42

* 10 pcs. in Linear kit, pg 40

** 20 pcs. in Linear kit, pg 40

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Linear Series (Continued)

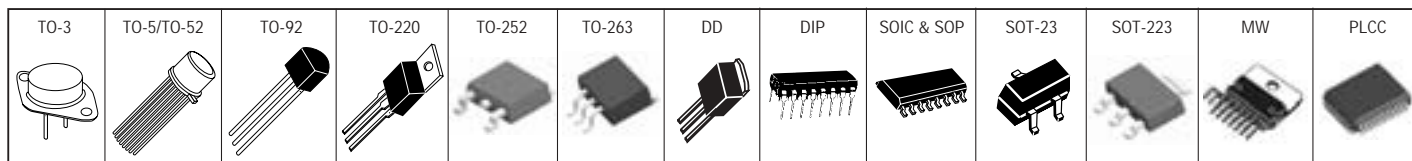
Package (see pg 45)

Part No.	Mfr.	Cross Ref.	Pkg.	Description	1	10	100
287734CE	+	AD580LH	TO-52	2.5V volt reference high precision	\$9.49	\$8.05	\$6.91
287785CE	ADI	AD581KH	TO-53	10V volt ref hi prec 10mV tolerance	8.89	7.54	6.32
287814CE	ADI	AD584JH	TO-99	Prog voltage reference 30mV tol.	6.85	5.65	4.72
288155CE	ADI	AD584KN	DIP-8	Prog voltage reference 11mV tol.	10.69	10.15	9.63
312012CE	ADI	AD586JN	DIP-8	High precision 5V reference	5.65	5.11	4.65
312004CE	ADI	AD586KR	SOIC-8	High precision 5V reference	6.65	5.38	4.58
115174CE	ADI	AD620AN	DIP-8	Low-cost instrument amplifier	16.15	14.85	13.55
310383CE	ADI	AD622AR	SOIC-8	Low-cost instrument amplifier	5.55	4.25	3.94
115182CE	ADI	AD633JN	DIP-8	Low-cost analog multiplier	7.75	6.97	6.28
241912CE	+	TC646VOA	SOIC-8	3-5V, PWM fan controller	2.55	2.27	2.05
242131CE	+	TC648VPA	DIP-8	3-5V, PWM fan controller	2.59	2.32	2.08
276509CE	+	MAX660CSA	SOIC-8	CMOS monolithic voltage converter	6.65	5.06	3.42
312194CE	+	MAX662ACP	DIP-8	Pos. 12V 30mA flash memory prog supply	4.05	3.37	3.20
312186CE	+	MAX662ACSA	SOIC-8	Pos. 12V 30mA flash memory prog supply	4.09	2.79	2.20
312151CE	MAX	MAX724CCK	TO-220/5	5A/2A step-down PWM switch mode DC-DC reg	10.75	9.13	8.67
25435CE	+	MC846P	DIP-14	Quad 2-input gate	3.95	2.95	2.25
315969CE	+	TC962COE	SOIC-16	High current charge pump DC-DC con.	2.25	2.23	2.20
316515CE	+	TC962CPA	DIP-8	High current charge pump DC-DC con.	2.49	2.37	2.25
239257CE	+	LT1004CZ-1.2	TO-92	1.2V, micropower voltage reference	.68	.57	.46
239265CE	+	LT1004CZ-2.5	TO-92	2.5V, micropower voltage reference	.68	.58	.43
301541CE	+	LT1009CLP	TO-92	2.5V voltage reference diode	.62	.52	.42
300177CE	LTC	LT1009CZ	TO-92	2.5V voltage reference diode	2.15	1.45	1.25
312258CE	MAX	MAX1044CPA	DIP-8	Switched capacitor volt converters	2.35	1.96	1.86
312240CE	MAX	MAX1044CSA	SOIC-8	Switched capacitor volt converters	2.85	2.38	2.26
300206CE	LTC	LTC1046CS8	SOIC-8	Inductorless 5V to 5V converter	4.79	3.22	2.79
278184CE	+	TL1451ACN	DIP-16	Dual pulse-width-mod control circuit	1.79	1.45	1.11
118578CE	+	MC1495L	DIP-14	Linear four quadrant multiplier	9.95	8.95	8.05
23211CE	+	LM1496N	DIP-14	Balanced mod/demodulator (MC1496P)	.65	.60	.54
311790CE	MCH	MCP1252-33X50	MSOP-8	Low-noise pos regulated charge pump	2.25	2.17	2.07
314261CE	ANA	AP1501K5	TO-263/5	150kHz, 5A buck PWM DC/DC con.	2.59	2.02	1.54
314296CE	ANA	AP1501-50K5	TO-263/5	150kHz, 3A buck PWM DC/DC con.	4.05	3.15	2.39
34278CE	+	ULN2003AN*	DIP-16	Hi-volt/curr. darl. transistor array	.39	.32	.28
193826CE	+	ULN2003AD	SOIC-16	Hi-volt/curr. darl. transistor array	.39	.35	.29
34294CE	+	ULN2004AN	DIP-16	Hi-volt/curr. darl. trans. array (XR2204CP)	.35	.30	.25
241891CE	+	ML2035CP	DIP-8	Sine wave generator	7.89	6.95	6.21
241883CE	+	ML2036CP	DIP-14	5V, 50kHz prog. sine wave generator	16.65	14.96	13.47
34972CE	+	XR2206CP	DIP-16	Monolithic function generator	3.59	3.29	2.99
34999CE	+	XR2211N	DIP-14	FSK demodulator/tone decoder	1.79	1.59	1.39
280081CE	+	TLE2425CD	SOIC-8	Precision virtual ground	1.29	1.05	.80
280022CE	+	TLE2426CD	SOIC-8	Rail splitter precision virtual ground	1.19	.91	.82
280073CE	+	TLE2426CLP	TO-92	Rail splitter precision virtual ground	1.19	.91	.82
34315CE	+	ULN2803A*	DIP-18	Hi-volt/curr. darl. transistor array	.69	.59	.49
123625CE	+	LM2907N-8	DIP-8	Frequency to voltage converter	1.55	1.39	1.11
23317CE	+	LM2907N	DIP-14	Frequency to voltage converter	1.39	1.11	.93
245631CE	+	LM2917M	SOIC-14	Freq. to voltage conv. w/ zener	1.65	1.45	1.40
23350CE	+	LM2917N-8	DIP-8	Freq. to voltage conv. w/ zener	1.89	1.46	1.31
23341CE	+	LM2917N-14	DIP-14	Freq. to voltage conv. w/ zener	1.79	1.49	1.29
12079CE	+	CA3046N	DIP-14	NPN transistor array (ULN2046)	.45	.42	.37
12159CE	+	CA3086N	DIP-14	Transistor array NPN (ULN2086)	.56	.52	.46
12247CE	+	CA3162E	DIP-16	Dual slope & rate analog/digital con	6.79	6.14	5.53
31974CE	+	SG3524N	DIP-16	Regulating pulse width modulator	.53	.50	.42
235328CE	+	UC3525AN	DIP-8	SMPS Controller	.57	.56	.50
314181CE	ANA	AP3842S	SO-8	High perf current mode PWM contrlr	.76	.64	.504
314190CE	ANA	AP3842N	DIP-8	High perf current mode PWM contrlr	.65	.61	.523
243521CE	+	UC3842AN	DIP-8	30V, curr. mode PWM contrlr, hi UVLO	.48	.44	.36
278926CE	+	UC3842D	SOIC-14	30V, curr. mode PWM contrlr, hi UVLO	.87	.70	.53
243504CE	+	UC3843AN	DIP-8	30V, curr. mode PWM controller	\$5.62	.44	.32
279443CE	+	UC3844D	SOIC-14	30V, curr. mode PWM contrlr, hi UVLO 50% DC	.44	.41	.38
243512CE	+	UC3844N	DIP-8	30V, curr. mode PWM contrlr, hi UVLO 50% DC	.44	.38	.31
243491CE	+	UC3845N	DIP-8	30V, curr. mode PWM contrlr, 50% duty cycle	.44	.41	.35
279451CE	+	UC3846N	DIP-16	40V, current mode PWM controller	.97	.82	.65
243571CE	+	LM4040AIZ-10	TO-92	10V, prec. µPwr shunt volt ref, 0.1%VR tol	1.79	1.49	.88
243598CE	+	LM4040AIZ-25	TO-92	2.5V, prec. µPwr shunt volt ref, 0.1%VR tol	.96	.71	.53
243580CE	+	LM4040AIZ-5.0	TO-92	5.0V, prec. µPwr shunt volt ref, 0.1%VR tol	1.79	1.68	1.11
243619CE	+	LM4040CIZ-25	TO-92	2.5V, prec. µPwr shunt volt ref, 0.5%VR tol	.96	.71	.53
243601CE	+	LM4040CIZ-5.0	TO-92	5.0V, prec. µPwr shunt volt ref, 0.5%VR tol	\$4.05	.70	.60

* 10 pcs. in Linear kit, pg 40

♦ Jameco Value Offering

Thousands of new ICs are in the pipeline for addition and not shown below. Call us to see if you can save 10-20%.



Manufacturer Cross Reference Table

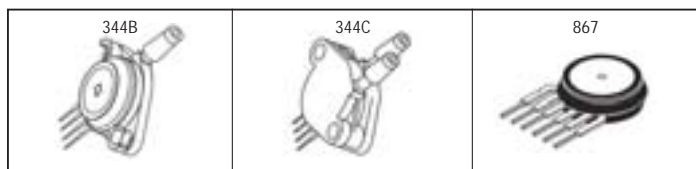
Manufacturer	Code	Manufacturer	Code	Manufacturer	Code	Manufacturer	Code	Manufacturer	Code
Analog Devices	ADI	Linear Technology	LTC	Microchip	MCH	On Semi	ON	Texas Instruments	TI
Anachip	ANA	Maxim Corporation	MAX	National Semiconductor	NSC	ST Micro	ST	Jameco Value Offering	+

Linear Series (Continued)

Package (see above)

Part No.	Mfr.	Cross Ref.	Pkg.	Description	1	10	100
302252CE	NSC	LM4040DIZ-2.5	TO-92	2.5V, prec. μ Pwr shunt volt ref, 1.0%VR tol	\$.99	\$.74	\$.54
302228CE	NSC	LM4040DIZ-5.0	TO-92	5.0V, prec. μ Pwr shunt volt ref, 1.0%VR tol	.99	.64	.39
25275CE	+	MC4044P	DIP-14	Frequency phase detector	9.99	7.49	5.25
29372CE	+	RC4151NB	DIP-8	Volt to frequency converter (XR4151)	1.59	1.43	1.29
312119CE	+	TPS6734ID	SOIC-8	Fixed 12V 120mA boost converter supply	1.95	1.89	1.81
297924CE	+	TPS6734IP	DIP-8	Fixed 12V 120mA boost converter supply	1.95	1.59	1.25
312143CE	TI	TPS6735ID	SOIC-8	Fixed neg 5V 200mA invert DC/DC con	1.95	1.88	1.81
312135CE	TI	TPS6735IP	DIP-8	Fixed neg 5V 200mA invert DC/DC con	1.99	1.82	1.65
312127CE	TI	TPS6755ID	SOIC-8	Adjustable inverting DC/DC inverter	2.15	1.85	1.81
288163CE	ADI	AD7501KN	DIP-16	8-channel analog multiplexer	12.15	11.55	10.98
288180CE	ADI	AD7506JN	DIP-28	16-channel analog multiplexer	14.69	13.15	11.75
51140CE	+	7555IPA	DIP-8	CMOS timer (LM555CN)	.33	.31	.29
51174CE	+	7660CPA	DIP-8	CMOS volt convtr (+5 to \pm 5V) (M660AN)	.85	.75	.65
290301CE	+	ICL7660ACP	DIP-8	1.5V - 12V volt converter, 10kHz, supp	1.35	1.00	.869
290335CE	+	ICL7660SCP	DIP-8	1.5V - 12V volt convtr, 10kHz freq boost	1.59	1.16	1.06
316662CE	+	ICL7662CBA	SOIC-8	Volt converter, 20Vin, 4.5-20V out	2.99	2.79	2.65
316646CE	+	ICL7662CPA	DIP-8	Volt converter, 20Vin, 4.5-20V out	1.59	.92	.85
51879CE	+	8038CCPD	DIP-14	Precision wave form generator	4.95	4.49	3.95
316540CE	+	TC9400CPD	DIP-14	Volt freq/freq volt converter	5.75	5.34	5.07
316531CE	+	TC9400COD	SOIC-14	Volt freq/freq volt converter	6.35	6.03	5.73
25021CE	ON	MC14411P	DIP-24	Bit rate frequency generator	5.95	5.45	4.75
241841CE	+	MC14467	DIP-16	Smoke detector, ionization type	1.35	1.04	.82
25064CE	ON	MC14490P	DIP-16	Hex contact bounce eliminator	6.95	6.25	5.59
354597CE	+	MC14551P	DIP-16	Quad 2-ch analog multi/demultiplexer	1.20	.97	.74
354626CE	+	MC14557	DIP-16	1-64 bit variable length shift register	.73	.61	.60
241832CE	ON	MC145012	DIP-16	Smoke detector, photoelectric type	2.25	2.14	2.03
246713CE	ON	MC145151DW2	SOIC-28	Parallel input PLL freq synthesizer	5.85	5.31	4.83
118586CE	ON	MC145151P	DIP-28	Parallel input PLL freq synthesizer	5.85	4.97	3.73

Pressure Sensors



Typical applications: air movement control, level indicators, leak detection, robotics and industrial controls

• To convert kPa to PSI: 1kPa = 0.1450377PSI



Part No.	Product No.	Type*	Case Type	Pressure (kPa)	Output	Op. Volt. (VDC@mA)	1	10	100
320899CE	MPX10DP	—	344C	0 - 10	35mV	3 @ 6 ..	\$10.95	\$10.40	\$9.88
320987CE	MPX2010DP	D	344C	0 - 10	25mV	10 @ 6 ..	14.85	14.07	13.37
321015CE	MPX2010GP	G	344B	0 - 10	25mV	10 @ 6 ..	14.65	13.90	13.21
321293CE	MPX5050D	D	867	0 - 50	4.7V	5 @ 7 ..	16.15	13.10	12.40

* D = differential; G = gauge



Hall-Effect Sensors

Package (see above)

Part No.	Cross Ref.	Pkg.	Description	1	10	100
319089CE	ATS137M	SIP-3	Hall-effect switch 25mA, 20V max, ext. temp	\$1.79	\$1.57	\$1.31
319097CE	AH175P	SIP-3	Hall-effect latch 25mA, 20V max, mil. temp	1.79	1.57	1.31
319100CE	AH182PL	SIP-3	Hall-effect switch 25mA, low power	.72	.65	.504
319118CE	AH182WL	SOT-23/3	Hall-effect switch 25mA, low power	.72	.65	.494

Temperature Sensors

Package (see above)

Part No.	Mfr.	Cross Ref.	Pkg.	Description	1	10	100
107094CE	NSC	LM34CZ	TO-92	Prec temp sensor (-40° to +230°F)	\$4.89	\$4.52	\$4.08
193480CE	NSC	LM34DM	SOIC-8	Prec temp sensor (-55° to 300°F)	1.75	1.32	.99
155192CE	NSC	LM34DZ	TO-92	Prec temp sensor (+32° to +212°F)	1.99	1.67	1.23
302560CE	NSC	LM35CAZ	TO-92	Precision C temperature sensor	5.19	4.14	3.55
193498CE	NSC	LM35DM	SOIC-8	Prec temp sensor (-55° to 150°C)	1.85	1.57	1.18
192217CE	NSC	LM35DT	TO-220/3	Prec temp sensor (-55° to 150°C)	2.55	1.92	1.44
107107CE	NSC	LM35CZ	TO-92	Prec temp sensor (-40° to 110°C)	5.35	4.10	3.16
155740CE	NSC	LM35DZ	TO-92	Prec temp sensor (0° to +100°C)	1.79	1.35	1.25
278361CE	ADI	TMP36FS	SOIC-8	Low voltage temp sensor, \pm 2°C	.85	.77	.69
278395CE	ADI	TMP36GS	SOIC-8	Low voltage temp sensor, \pm 3°C	.63	.54	.49
278387CE	ADI	TMP36GT9	TO-92	Low voltage temp sensor	1.09	.92	.83
302164CE	NSC	LM50BIM3	SOT-23	Single supply temp sensor, \pm 2°C	1.45	1.10	.82
302172CE	NSC	LM50CIM3	SOT-23	Single supply temp sensor, \pm 3°C	.99	.74	.54
302148CE	NSC	LM56BIM	SOIC-8	Dual output low-power thermo, dig-out	2.29	1.71	1.37
302092CE	+	LM61CIZ	TO-92	2.7V analog temperature sensor	.95	.80	.75
301639CE	NSC	LM74CIBP-3	μ SMD-5	12-bit + sign digital temp sensor	2.29	1.71	1.44
301604CE	NSC	LM74CIBP-5	μ SMD-5	12-bit + sign digital temp sensor	2.29	1.71	1.44
301621CE	NSC	LM74CIM-3	SOIC-8	12-bit + sign digital temp sensor	1.89	1.42	1.19
301583CE	NSC	LM74CIM-5	SOIC-8	12-bit + sign digital temp sensor	1.89	1.41	1.19
311853CE	NSC	LM75CIM-3	SOIC-8	Digital temp sensor/thermal watchdog	1.65	1.32	1.17
311845CE	NSC	LM75CIM-5	SOIC-8	Digital temp sensor/thermal watchdog	1.65	1.32	1.17
301567CE	NSC	LM77CIM-3	SOIC-8	9-bit + sign digital window comp	2.15	1.61	1.39
282028CE	+	LM135H	TO-46	Precision temperature sensor	8.55	7.67	6.91
120820CE	+	LM335AZ	TO-92	Precision temperature sensor	.81	.75	.71
193560CE	+	LM335M	SOIC-8	Precision temperature sensor	1.10	.94	.69
23755CE	+	LM335Z	TO-92	Volt mode temperature sensor	.67	.61	.44
241939CE	+	AD590JH	SOT-52/3	Two terminal IC temp transducer	6.85	6.49	6.19
313306CE	+	AD594AQ	DIP-14	Thermocouple amp for iron-constantan	10.39	10.22	10.05
313293CE	+	AD595AQ	DIP-14	Thermocouple amp for chromel-alumel	13.55	11.89	10.52
302551CE	+	DS18S20	SOIC-8	High-precision 1-wire digital thermo	4.49	3.56	3.21
287371CE	+	AD7814ARM	μ SO-8	10-bit digital temp. sensor	2.09	1.99	1.90

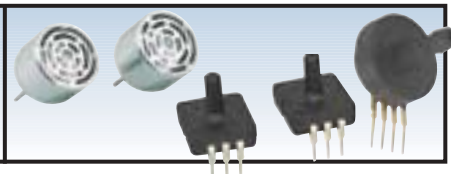
Digital Potentiometers

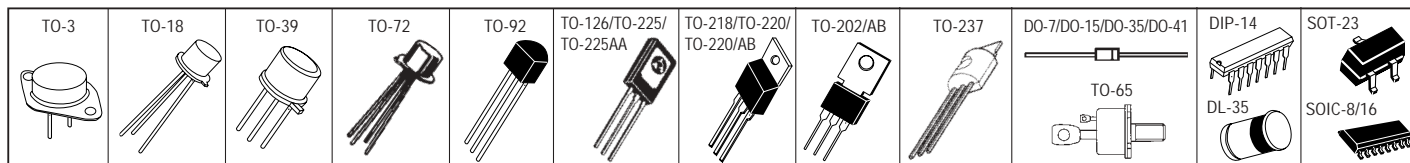
Package (see above)

Part No.	Cross Ref.	Pkg.	Description	1	10	100
241744CE	MCP41010-I/P	DIP-8	10k Ω , 256 steps, SPI digital pot	\$1.59	\$1.49	\$1.39
241761CE	MCP41050-I/P	DIP-8	50k Ω , 256 steps, SPI digital pot	1.85	1.55	1.40
241787CE	MCP41100-I/P	DIP-8	100k Ω , 256 steps, SPI digital pot	1.55	1.47	1.39
241752CE	MCP42010-I/P	DIP-14	10k Ω , 256 steps, 2-ch, SPI digital pot	2.35	2.21	2.10
241779CE	MCP42050-I/P	DIP-14	50k Ω , 256 steps, 2-ch, SPI digital pot	2.75	2.10	2.02
241795CE	MCP42100-I/P	DIP-14	100k Ω , 256 steps, 2-ch, SPI digital pot	2.59	2.33	2.10

Looking for Non-Semiconductor Sensors?

See page 162 for liquid level, pressure, inductive proximity, ultrasonic, latched hall-effect and vibration/tilt switch sensors.





Transistors

Package (see above)

* Prepackaged: order in increments of 10, 100 or 1000									
Part No.	Product No.	Mfr.	Pkg.	Desc.	V _{CEO} Min. (h _{FE} @ I _C)	1	10	100	1000
214834CE	MMBTA05	+	SOT-23	NPN	60 —	.....*	\$.07	\$.045	\$.025
297799CE	MPSA05	+	TO-92	NPN	60 100 @ .01A	.....*	.075	.064	.034
214842CE	MMBTA06	+	SOT-23	NPN	80 100 @ .01A	.....*	.066	.05	.038
26462CE	MPSA06*	+	TO-92	NPN	30 50 @ .01A	.....*	.05	.028	.026
288930CE	MPSH10	+	TO-92	NPN	25 60 @ .004A	.....*	.10	.059	.043
214851CE	MMBTA13	+	SOT-23	NPN	30 5k @ .01A	.....*	.057	.042	.032
26489CE	MPSA13*	+	TO-92	NPN	30 5k @ .01A	.....*	.066	.034	.028
214869CE	MMBTA14	+	SOT-23	NPN	30 10k @ .01A	.....*	.04	.032	.024
210593CE	MPSA14	+	TO-92	NPN	30 20k @ .10A	.....*	.083	.067	.038
210681CE	MPSA18	+	TO-92	NPN	45 500 @ .001A	.....*	.083	.062	.043
288850CE	MPSA29	+	TO-92	NPN	100 10k @ .1A	.....*	.10	.059	.044
33021CE	TIP29A	+	TO-220	NPN	60 15 @ .1A	.44	.42	.39	.32
297781CE	TIP29C	+	TO-220	NPN	100 40 @ .2A	.25	.208	.195	.17
33030CE	TIP30A	+	TO-220	PNP	60 15 @ .1A	.71	.56	.40	.247
179346CE	TIP30C	FSC	TO-220	PNP	100 15 @ .1A	.39	.365	.32	.265
33048CE	TIP31A*	+	TO-220	NPN	60 10 @ .3A	.49	.39	.35	.29
179354CE	TIP31C	FSC	TO-220	NPN	100 10 @ .3A	.49	.37	.30	.18
33064CE	TIP32A*	+	TO-220	PNP	60 10 @ .3A	.37	.335	.285	.23
181841CE	TIP32C	+	TO-220	PNP	100 10 @ .3A	.49	.376	.285	.18
33081CE	TIP41A	+	TO-220	NPN	60 15 @ .3A	.59	.55	.50	.42
179371CE	TIP41C	FSC	TO-220	NPN	100 15 @ .3A	.39	.367	.304	.20
214885CE	MMBTA42	+	SOT-23	NPN	300 40 @ .01A	.....*	.065	.057	.04
178546CE	MPSA42	+	TO-92	NPN	30 40 @ .03A	.....*	.081	.073	.062
33101CE	TIP42A	+	TO-220	PNP	60 15 @ .3A	.58	.49	.47	.31
139580CE	TIP42C	+	TO-220	PNP	100 15 @ .3A	.45	.407	.344	.247
179389CE	TIP42C	FSC	TO-220	PNP	100 15 @ .3A	.51	.461	.39	.254
288614CE	TIP47	+	TO-220	NPN	250 30 @ .3A	.48	.357	.202	.166
288631CE	TIP48	+	TO-220	NPN	300 30 @ .3A	.49	.291	.265	.238
214906CE	MMBTA55	+	SOT-23	PNP	60 100 @ .01A	.....*	.045	.036	.027
214914CE	MMBTA56	+	SOT-23	PNP	80 100 @ .01A	.....*	.085	.073	.055
210606CE	MPSA56	+	TO-92	PNP	80 100 @ .10A	.....*	.06	.054	.04
214922CE	MMBTA63	+	SOT-23	PNP	30 5k @ .01A	.....*	.062	.05	.03
288921CE	MPSA63	+	TO-92	PNP	30 10k @ .1A	.....*	.075	.042	.03
214931CE	MMBTA64	+	SOT-23	PNP	30 10k @ .01A	.....*	.047	.04	.03
120221CE	BPW77NA	+	TO-18	NPN	70 —	1.99	1.89	1.55	.97
178554CE	MPSA92	+	TO-92	PNP	300 25 @ .003A	.....*	.11	.075	.049
214957CE	MMBTA92	+	SOT-23	PNP	300 40 @ .01A	.....*	.06	.059	.044
214033CE	MPSA93*	+	TO-92	PNP	200 25 @ .03A	.....*	.07	.024	.022
277413CE	PN100	+	TO-92	NPN	45 100 @ .15A	.....*	.045	.032	.027
288420CE	TIP100	+	TO-220	NPN	60 1k @ .3A	.52	.43	.27	.22
297772CE	TIP101	+	TO-220	NPN	80 1k @ .3A	.60	.54	.46	.41
32977CE	TIP102*	+	TO-220	NPN	100 1k @ .3A	.57	.49	.41	.245
179240CE	TIP102	FSC	TO-220	NPN	100 1k @ .3A	.48	.43	.40	.29

* Jameco Value Offering FSC = Fairchild Semiconductor Blue Part No. = Limited Quantity Available
† 10 pcs. in Transistor cabinet kit, pg 47

Transistors (Continued)

Package (see above)

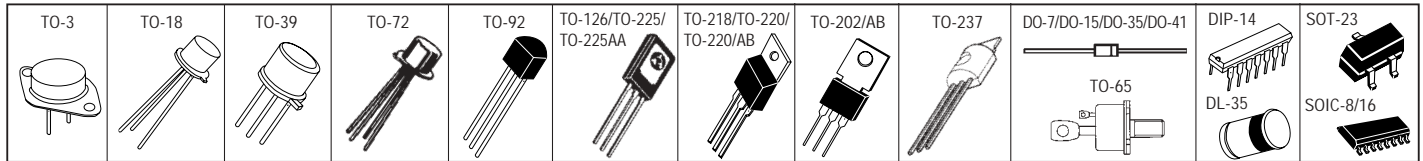
* Prepackaged: order in increments of 10, 100 or 1000									
Part No.	Product No.	Mfr.	Pkg.	Desc.	V _{CEO} Min. (h _{FE} @ I _C)	1	10	100	1000
288462CE	TIP105	+	TO-220	PNP	60 1k @ .3A	.41	\$.398	\$.319	\$.264
32985CE	TIP106	+	TO-220	PNP	80 1k @ .3A	.85	.75	.69	.55
179258CE	TIP107	FSC	TO-220	PNP	100 1k @ .3A	.55	.49	.40	.287
288471CE	TIP110	+	TO-220	NPN	60 1k @ .1A	.48	.457	.37	.23
288500CE	TIP111	+	TO-220	NPN	80 1k @ .1A	.50	.45	.43	.365
288518CE	TIP112	+	TO-220	NPN	100 1k @ .1A	.51	.44	.38	.23
288526CE	TIP115	+	TO-220	PNP	60 1k @ .1A	.38	.324	.262	.186
288542CE	TIP117	+	TO-220	PNP	100 1k @ .1A	.50	.375	.295	.245
32993CE	TIP120*	+	TO-220	NPN	60 1k @ .3A	.49	.45	.39	.27
179291CE	TIP120	FSC	TO-220	NPN	60 1k @ .3A	.61	.53	.438	.22
288585CE	TIP121	+	TO-220	NPN	80 1k @ .5A	.49	.375	.31	.27
120416CE	TIP122	+	TO-220	NPN	100 1k @ .3A	.42	.37	.35	.285
179303CE	TIP122	FSC	TO-220	NPN	100 1k @ .3A	.55	.42	.32	.195
33013CE	TIP125	+	TO-220	PNP	60 1k @ .3A	.49	.45	.29	.26
288606CE	TIP126	+	TO-220	PNP	80 1k @ .5A	.49	.375	.285	.17
179320CE	TIP127	FSC	TO-220	PNP	100 1k @ .3A	.52	.391	.297	.207
27786CE	MJE172	+	TO-225	PNP	80 30 @ .50A	.35	.322	.289	.179
277341CE	PN200	+	TO-92	PNP	45 100 @ .15A	.....*	.09	.06	.045
254772CE	BD237	+	TO-126	NPN	80 40 @ .15A	.44	.40	.32	.24
254810CE	BC337	+	TO-92	NPN	45 100 @ .10A	.....*	.174	.114	.058
211529CE	MJE340	+	TO-225	NPN	300 30 @ .05A	.34	.30	.26	.22
211537CE	MJE350	+	TO-225	PNP	300 30 @ .05A	.41	.37	.33	.29
255994CE	BU406	+	TO-220	NPN	200 —	1.16	1.04	.84	.63
272031CE	BU407	+	TO-220	NPN	150 —	.91	.81	.77	.61
256073CE	BD438	+	TO-225	PNP	45 30 @ .01A	.39	.35	.28	.22
254801CE	BC547B	+	TO-92	NPN	45 330 @ .002A	.....*	.075	.067	.051
254799CE	BC547C	+	TO-92	NPN	45 600 @ .002A	.....*	.08	.075	.05
254781CE	BC548B	+	TO-92	NPN	30 110 @ .002A	.....*	.15	.086	.064
309825CE	BD681	+	TO-225	NPN	100 750 @ .2A	.49	.481	.285	.212
256065CE	BD682	+	TO-225	PNP	100 750 @ 1.5A	.54	.48	.39	.26
211545CE	MJE700	+	TO-225	PNP	60 750 @ 1.5A	.30	.27	.22	.17
211553CE	MJE800	+	TO-225	NPN	60 750 @ 1.5A	.28	.26	.23	.195
213920CE	MMBT918	+	SOT-23	NPN	15 20 @ .003A	.....*	.058	.042	.032
194327CE	2N2102	+	TO-39	NPN	65 40 @ .15A	.50	.45	.36	.27
38228CE	2N2119A	+	TO-39	NPN	40 100 @ .15A	.41	.37	.31	.28
94941CE	MMBT2222	+	SOT-23	NPN	30 100 @ .15A	.22	.045	.034	.028
26446CE	MPQ2222	+	DIP-14	NPN	40 100 @ .15A	2.79	2.52	2.29	2.13
28628CE	PN2222**	+	TO-92	NPN	30 100 @ .15A	.....*	.065	.041	.025
213938CE	MMBT2222A	+	SOT-23	NPN	40 100 @ .15A	.....*	.041	.033	.023
213997CE	MMPO2222A	+	SOIC-16	NPN	40 100 @ .15A	.95	.86	.68	.51
210673CE	MPS2222A	+	TO-92	NPN	40 40 @ .50A	.....*	.057	.041	.034
178511CE	PN2222A	+	TO-92	NPN	40 100 @ .15A	.....*	.129	.092	.051
38236CE	2N2222A*	+	TO-18	NPN	40 100 @ .15A	.39	.35	.29	.25
214658CE	MMBT2369	+	SOT-23	PNP	25 60 @ .05A	.....*	.05	.042	.031
213946CE	MMBT2369A	+	SOT-23	NPN	15 40 @ .01A	.....*	.04	.032	.024
26526CE	MPS2369	+	TO-92	NPN	15 20 @ .10A	.....*	.066	.042	.032
211334CE	MPS2369A*	+	TO-92	NPN	15 20 @ .10A	.....*	.07	.052	.047
194378CE	2N2905A	+	TO-39	PNP	60 100 @ .15A	.45	.428	.403	.315
94959CE	MMBT2907	+	SOT-23	PNP	40 100 @ .15A	.22	.068	.041	.026
26454CE	MPQ2907	+	DIP-14	PNP	40 100 @ .15A	2.19	1.85	1.35	.99
28644CE	PN2907**	+	TO-92	PNP	40 100 @ .15A	.....*	.125	.09	.045
213954CE	MMBT2907A	+	SOT-23	PNP	60 100 @ .01A	.....*	.09	.043	.032
214009CE	MMPO2907A	+	SOIC-16	PNP	60 100 @ .01A	1.19	.89	.71	.50

* Jameco Value Offering FSC = Fairchild Semiconductor Blue Part No. = Limited Quantity Available
† 10 pcs. in Transistor cabinet kit, pg 47

We're Listening to Your Requests



Email us 24/7 at NewProducts@Jameco.com
with suggestions for products
you'd like to see in future catalogs.



Transistors (Continued)

Package (see above)

* Prepackaged: order in increments of 10, 100 or 1000										
Part No.	Product No.	Mfr.	Pkg.	Desc.	V _{CE0}	Min. (h _{FE} @ I _C)	1	10	100	1000
211342CE	MPS2907A	+	TO-92	PNP	60	100 @ .15A	..... *	\$.055	\$.048	\$.036
178520CE	PN2907A	+	TO-92	PNP	60	100 @ .15A	..... *	.085	.077	.041
38279CE	2N2907A*	+	TO-18	PNP	60	100 @ .15A	..... .36	.34	.31	.25
211377CE	TIP2955	+	TO-218	PNP	60	5 @ .001A	..... 1.05	.94	.90	.72
211502CE	MJ2955	+	TO-3	PNP	60	20 @ 4A	..... .69	.62	.56	.52
25831CE	MJE2955T	+	TO-220	PNP	60	20 @ 4A	..... .58	.53	.445	.305
38295CE	2N3053*	+	TO-39	NPN	40	25 @ .15A	..... .47	.43	.40	.37
211385CE	TIP3055	+	TO-218	NPN	60	5 @ .001A	..... 1.05	.99	.91	.74
38308CE	2N3055*	+	TO-3	NPN	60	15 @ 10A	..... .95	.85	.72	.63
211406CE	2N3055A	+	TO-3	NPN	60	20 @ 4A	..... 1.55	1.49	1.13	.98
25857CE	MJE3055T	+	TO-220	NPN	60	20 @ 4A	..... .53	.49	.45	.39
194415CE	2N3439	+	TO-39	NPN	350	40 @ .02A	..... .53	.50	.48	.363
209242CE	2N3771	+	TO-3	NPN	40	15 @ 15A	..... 2.19	1.84	1.56	.99
38324CE	2N3772	+	TO-3	NPN	40	15 @ 10A	..... 2.49	2.05	1.79	1.15
140151CE	2N3773	+	TO-3	NPN	140	15 @ 8A	..... 2.45	2.32	2.26	2.07
94967CE	MMBT3904	+	SOT-23	NPN	40	100 @ .01A	..... *	.042	.034	.023
211351CE	MPS3904	+	TO-92	NPN	40	100 @ .001A	..... *	.10	.058	.044
38359CE	2N3904**	+	TO-92	NPN	40	100 @ .01A	..... *	.069	.057	.035
178597CE	2N3904	FSC	TO-92	NPN	40	100 @ .01A	..... *	.09	.06	.048
62287CE	2N3905	+	TO-92	PNP	40	50 @ .01A	..... *	.10	.074	.04
94975CE	MMBT3906	+	SOT-23	PNP	40	100 @ .01A	..... *	.042	.038	.023
214017CE	MMMQ3906	+	SOIC-16	PNP	40	75 @ .01A	..... 1.37	.99	.31	.28
38375CE	2N3906**	+	TO-92	PNP	40	100 @ .01A	..... *	.05	.04	.03
178618CE	2N3906	FSC	TO-92	PNP	40	100 @ .01A	..... *	.085	.045	.035
194466CE	2N4033	+	TO-39	PNP	80	100 @ .10A	..... .62	.56	.45	.33
38404CE	2N4123	+	TO-92	NPN	30	25 @ .05A	..... *	.12	.11	.082
214674CE	MMBT4124	+	SOT-23	NPN	25	60 @ .05A	..... *	.04	.032	.024
62295CE	2N4124	+	TO-92	NPN	25	60 @ .05A	..... *	.044	.034	.025
214682CE	MMBT4126	+	SOT-23	PNP	25	60 @ .05A	..... *	.042	.034	.026
214623CE	2N4126	+	TO-92	PNP	25	60 @ .05A	..... *	.05	.04	.03
253411CE	2N4400	+	TO-92	NPN	40	50 @ .15A	..... *	.042	.03	.022
214703CE	MMBT4401	+	SOT-23	NPN	40	80 @ .01A	..... *	.058	.042	.038
38421CE	2N4401*	+	TO-92	NPN	40	100 @ .15A	..... *	.08	.06	.05
214720CE	MMBT4403	+	SOT-23	PNP	40	60 @ .001A	..... *	.045	.04	.03
38447CE	2N4403*	+	TO-92	PNP	40	100 @ .15A	..... *	.05	.049	.036
211511CE	2N4410	+	TO-92	NPN	80	60 @ .01A	..... *	.05	.045	.033
277755CE	MJ4502	+	TO-3	PNP	90	25 @ 7.5A	..... 3.45	3.07	2.76	2.49

+ Jameco Value Offering FSC = Fairchild Semiconductor Blue Part No. = Limited Quantity Available
 * 10 pcs. in Transistor cabinet kit, below ** 100 pcs. in Transistor cabinet kit, below

Transistor Assortment Cabinet Kit

Includes:

20 drawer component cabinet (319599CE),
 20 clear plastic drawers (319601CE),
 20 clear dividers (319610CE), pg 273 and
 30 adhesive labels for drawers to identify parts in kit

10 each: 2N2222A, 2N2907A, 2N3053, 2N3055, 2N4401,
 2N4403, 2N5951, 2N7000, MJE3055T, MPF102,
 MPSA06, MPSA13, TIP31A, TIP32A, TIP102, TIP120

100 each: 2N3904, 2N3906, PN2222, PN2907



SAVE \$8

Part No.	Description	Wt. (lbs.)	1	10
82595CE	560 pcs. (20 types) NPN, PNP transistor kit	5.1	..... \$82.95	\$74.65
130374CE	Refill for 82595CE (560 pcs.)	0.4	..... 69.95	62.95

Transistors (Continued)

Package (see above)

* Prepackaged: order in increments of 10, 100 or 1000										
Part No.	Product No.	Mfr.	Pkg.	Desc.	V _{CE0}	Min. (h _{FE} @ I _C)	1	10	100	1000
211465CE	2N4920	+	TO-225	PNP	80	30 @ .50A	..... \$.33	\$.307	\$.294	\$.279
211490CE	2N4923	+	TO-225	NPN	80	30 @ .50A	..... .45	.40	.32	.28
310666CE	2N5038	+	TO-3	NPN	150	20 @ 12A	..... 6.89	5.93	4.51	3.89
213962CE	MMBT5087	+	SOT-23	PNP	50	250 @ .01A	..... *	.042	.036	.024
210631CE	2N5087	+	TO-92	PNP	50	250 @ .10A	..... *	.07	.032	.022
213971CE	MMBT5088	+	SOT-23	NPN	30	300 @ .01A	..... *	.12	.10	.035
62316CE	2N5088	+	TO-92	NPN	30	300 @ .10A	..... *	.05	.049	.041
214746CE	MMBT5089	+	SOT-23	NPN	25	400 @ .01A	..... *	.11	.08	.042
62324CE	2N5089	+	TO-92	NPN	25	400 @ .10A	..... *	.07	.048	.035
140373CE	2N5179	+	TO-72	NPN	12	25 @ .003A	..... .59	.56	.512	.482
209251CE	2N5191	+	TO-225	NPN	60	25 @ 1.5A	..... .41	.37	.30	.29
253930CE	2N5400	+	TO-92	PNP	120	40 @ .010A	..... *	.09	.081	.06
214754CE	MMBT5401	+	SOT-23	PNP	150	40 @ .001A	..... *	.05	.04	.024
210649CE	2N5401	+	TO-92	PNP	150	60 @ .01A	..... *	.066	.05	.037
214762CE	MMBT5550	+	SOT-23	NPN	140	60 @ .01A	..... *	.045	.019	.017
253569CE	2N5550	+	TO-92	NPN	140	60 @ .010A	..... *	.18	.16	.065
214771CE	MMBT5551	+	SOT-23	NPN	140	80 @ .01A	..... *	.045	.026	.023
210657CE	2N5551	+	TO-92	NPN	160	80 @ .01A	..... *	.059	.05	.043
209277CE	2N5657	+	TO-126	NPN	350	30 @ .10A	..... .26	.24	.22	.20
253438CE	2N5884	+	TO-3	PNP	80	4 @ 25A	..... 2.29	2.15	1.60	1.47
254764CE	2N5886	+	TO-3	NPN	80	20 @ 10A	..... 2.29	2.09	1.59	1.28
194571CE	2N6042	+	TO-220	PNP	100	1k @ 3A	..... .59	.47	.42	.35
194589CE	2N6045	+	TO-220	NPN	100	1k @ 3A	..... .44	.40	.32	.28
194597CE	2N6052	+	TO-3	PNP	100	750 @ 6A	..... 1.89	1.78	1.74	1.47
194600CE	2N6059	+	TO-3	NPN	100	750 @ 6A	..... 1.59	1.55	1.36	1.12
255011CE	2N6292	+	TO-220	NPN	70	30 @ 2A	..... .57	.51	.41	.31
213989CE	MMBT6427	+	SOT-23	NPN	40	10k @ .01A	..... *	.065	.043	.032
255003CE	2N6427	+	TO-92	NPN	40	10k @ .01A	..... .21	.19	.15	.044
288817CE	MPS6521	+	TO-92	NPN	25	300 @ 0.002A	..... *	.137	.114	.075
288833CE	MPS6531	+	TO-92	NPN	40	60 @ 0.01A	..... .21	.166	.076	.051
194618CE	2N6547	+	TO-3	NPN	400	12 @ 5A	..... 4.15	3.48	2.74	2.41
194626CE	2N6678	+	TO-3	NPN	400	8 @ 15A	..... 6.79	6.15	5.75	4.49
214025CE	MMPQ6700	+	SOIC-16	NPN	40	70 @ .01A	..... 2.15	1.80	1.32	.99
140134CE	2N6725	+	TO-237	NPN	50	25k @ .20A	..... .55	.45	.36	.29
277771CE	MJE13005	+	TO-220	NPN	400	8 @ 2A	..... .80	.71	.54	.32
277798CE	MJE15029	+	TO-220	PNP	120	40 @ 2A	..... .81	.75	.69	.64
277851CE	MJE15031	+	TO-220	PNP	150	40 @ 2A	..... .89	.80	.72	.65

+ Jameco Value Offering Blue Part No. = Limited Quantity Available

J-FETs

Package (see above)

* Prepackaged: order in increments of 10, 100 or 1000										
Part No.	Product No.	Mfr.	Pkg.	Desc.	BV _{GS} @ I _{GS}	Loss (mA) @ V _{DS}	1	10	100	1000
26403CE	MPF102*	+	TO-92	N-Ch	25 @ 1	20 @ 15	..... *	\$.155	\$.11	\$.08
211393CE	J111	+	TO-92	N-Ch	35 @ 1	20 @ 15	..... .20	.176	.167	.158
140450CE	J112	+	TO-92	N-Ch	35 @ 1	5 @ 15	..... *	.21	.15	.112
140142CE	J176	+	TO-92	P-Ch	30 @ 1	2 @ 25	..... .33	.29	.21	.17
211414CE	J177	+	TO-92	P-Ch	30 @ 1	20 @ 15	..... .39	.28	.20	.14
253921CE	2N5458	+	TO-92	N-Ch	25 @ 0.1	—	..... .29	.23	.18	.16
210622CE	2N3819	+	TO-92	N-Ch	25 @ 1	20 @ 15	..... *	.085	.059	.055
38527CE	2N5951*	+	TO-92	N-Ch	30 @ 1	13 @ 15	..... .69	.64	.44	.39

+ Jameco Value Offering * 10 pcs. in Transistor cabinet kit, left

Lowest Price Guarantee

Found a product at a lower print-advertised price?
 We'll beat that price by 10% right down to our cost!

N-Channel/P-Channel MOSFETs

Package (see pg 47)

* Prepackaged: order in increments of 10, 100 or 1000

Part No.	Product No.	Mfr.	Pkg.	Desc.	Min. On-St. BV _{DS} DS Current	1	10	100	1000
256014CE	BSS138	♦	SOT-23	N-Ch	50V 0.2A	* \$.08	\$.06	\$.045	
256031CE	BS170	♦	TO-92	N-Ch	60V —	* .10	.07	.06	
256057CE	BS250	♦	TO-92	P-Ch	45V — .....	.37	.34	.30	.20
209234CE	IRF510	♦	TO-220	N-Ch	100V 5.6A .....	.69	.59	.55	.49
209226CE	IRF520	♦	TO-220	N-Ch	100V 10.0A .....	.85	.59	.52	.31
209058CE	IRL520L	♦	TO-220	N-Ch	100V 10.0A .....	.77	.55	.46	.44
210500CE	IRF530	♦	TO-220	N-Ch	100V 14.0A .....	.66	.57	.52	.49
210518CE	IRF540	♦	TO-220	N-Ch	100V 27.0A	1.05	.95	.89	.75
210526CE	IRF620	♦	TO-220	N-Ch	200V 6.0A .....	.45	.42	.35	.32
210534CE	IRF630	♦	TO-220	N-Ch	200V 9.0A .....	.75	.65	.58	.43
210542CE	IRF640	♦	TO-220	N-Ch	200V 18.0A .....	.69	.65	.57	.49
210551CE	IRF730	♦	TO-220	N-Ch	400V 5.5A .....	.89	.75	.67	.63
210569CE	IRF740	♦	TO-220	N-Ch	400V 10.0A	1.25	1.10	.89	.80
210577CE	IRF820	♦	TO-220	N-Ch	500V 4.0A .....	.65	.59	.53	.44
210585CE	IRF830	♦	TO-220	N-Ch	500V 4.5A .....	.77	.70	.62	.58
184719CE	IRF840	♦	TO-220	N-Ch	500V 8.0A	1.49	1.29	.99	.89
279460CE	VN2222LL	♦	TO-92	N-Ch	60V .75A .....	.23	.20	.16	.14
279486CE	VN2410L	♦	TO-92	N-Ch	240V 1.0A .....	.45	.405	.364	.328
279478CE	VN2406L	♦	TO-92	N-Ch	240V 1.0A .....	.44	.35	.27	.17
255020CE	SI4410DY	♦	SOIC-8	N-Ch	30V 20A .....	.97	.87	.65	.52
255038CE	SI4420DY	♦	SOIC-8	N-Ch	30V 30A	2.15	1.94	1.55	1.16
255046CE	SI4435DY	♦	SOIC-8	P-Ch	-30V -40A .....	.85	.71	.52	.42
255054CE	SI4463DY	♦	SOIC-8	P-Ch	-20V -30A	1.82	1.64	1.31	.98
255062CE	SI4467DY	♦	SOIC-8	P-Ch	-12V -20A	1.31	1.20	1.09	.99
255071CE	SI4884DY	♦	SOIC-8	N-Ch	30V 40A .....	.59	.57	.53	.43
255089CE	SI4963DY	♦	SOIC-8	Dual P-Ch	-20V -20A	1.09	1.08	1.07	1.06
253948CE	2N5457	♦	TO-92	N-Ch	-25V — .....	.20	.18	.126	.102
253913CE	2N5460	♦	TO-92	P-Ch	40V — .....	.37	.33	.27	.20
253905CE	2N5461	♦	TO-92	P-Ch	40V — .....	.26	.19	.16	.13
253892CE	2N5462	♦	TO-92	P-Ch	40V —	* .089	.081	.073	
253884CE	2N5484	♦	TO-92	N-Ch	-25V —	* .13	.09	.052	
253585CE	2N5485	♦	TO-92	N-Ch	-25V —	* .24	.22	.17	.13
253577CE	2N5486	♦	TO-92	N-Ch	-25V —	* .18	.15	.11	
253542CE	2N5639	♦	TO-92	N-Ch	30V 0.05A .....	.24	.22	.16	.081
178669CE	2N7000*	FSC	TO-92	N-Ch	60V 0.2A .....	.23	.13	.10	.095
119423CE	2N7000	♦	TO-92	N-Ch	60V 0.3A	* .11	.10	.09	
140169CE	2N7002	♦	SOT-23	N-Ch	60V 0.5A	* .14	.115	.045	

♦ Jameco Value Offering FSC = Fairchild Semiconductor * 10 pcs. in Transistor cabinet kit, pg 47

Diodes

Package (see pg 47)
















* Prepackaged: order in increments of 10, 100 or 1000

Part No.	Product No.	Mfr.	Pkg.	Description	1	10	100	1000
140185CE	BAS16	♦	SOT-23	70PRV, 1A (Switching)	* \$.05	\$.04	\$.036	
254852CE	BAT54	♦	SOT-23	30PRV, 0.6A (Schottky)	* .12	.09	.067	
254844CE	BAT54A	♦	SOT-23	30PRV, 0.6A (Schottky)	* .09	.08	.06	
254836CE	BAT54C	♦	SOT-23	30PRV, 0.6A (Schottky)	* .18	.15	.11	
254828CE	BAT54S	♦	SOT-23	30PRV, 0.6A (Schottky) .....	.21	.075	.05	.04
140177CE	BAW56	♦	SOT-23	70PRV, 0.25A (Switching)	* .091	.053	.04	
140206CE	BAV70	♦	SOT-23	70PRV, 0.25A (Switching)	* .075	.055	.041	
140193CE	BAV99	♦	SOT-23	70PRV, 1A (Switching)	* .075	.062	.047	
35941CE	1N270*	♦	DO-7	80PRV (Germanium) .....	.99	.86	.74	.61
313402CE	MMBD914	♦	SOT-23	100 VRRM, 0.20A (Switching) ..	* .057	.055	.031	
179207CE	1N914	VSH	DO-35	100PRV (Switching)	* .05	.025	.016	
36311CE	1N914**	♦	DO-35	75PRV, .01A (Switching)	* .022	.018	.014	
312101CE	MBR1100	♦	DO-41	100PRV, 1.0A (Schottky) .....	.26	.145	.096	.074
35967CE	1N3600*	♦	DO-35	50PRV, .20A (Switching)	* .04	.029	.017	
179215CE	1N4148	VSH	DO-35	100PRV (Switching)	* .04	.03	.025	
36038CE	1N4148**	♦	DO-35	75PRV, .01A (Switching)	* .036	.027	.023	
151247CE	1N4148T	♦	DO-35	75PRV, .01A (Switching)	#	#	#	.009
94908CE	LL4148	♦	DL-35	75PRV @ 50μA, 10mA	†	†	.032	.014
313411CE	MMBD4148	♦	SOT-23	100 VRRM, 0.20A (Gen. Purp.) ..	* .057	.055	.031	

♦ Jameco Value Offering VSH = Vishay † Prepackaged: order in increments of 100
* 10 pcs. in Diode/rectifier cabinet kit, pg 50 # Taped-ammo style: order in increments of 1000
** 100 pcs. in Diode/rectifier cabinet kit, pg 50

Heat Sinks

Our TO-3 & TO-220 heat sinks are made from black anodized aluminum (except for P/N 107297CE which is light weight aluminum). They can be mounted horizontally or vertically depending on your applications. P/N 42622CE and 228005CE can be mounted vertically with solderable mounting tabs.

							
326633CE	326684CE	326756CE	326772CE	326596CE			
							
326609CE	326617CE	326625CE	326641CE	326650CE			
							
326692CE	326713CE	326721CE	326748CE	326764CE			
Part No.	Cross Ref. No.	Type	Size (L"xW"xH")	1	10	100	1000
326668CE	577500B00000	TO-126	—	..... \$ .33	\$.295	\$.26	\$.25
326633CE	577304B00000	TO-202	0.52x0.38x0.75	..... .24	.23	.22	.207
326684CE	566010B03400	TO-218	1.00x0.51x1.22	..... .99	.89	.76	.65
326756CE	529801B02500	TO-218	1.64x0.98x1.51	..... 1.02	.98	.83	.71
326772CE	530101B00150	TO-218	1.75x0.49x1.75	..... 1.11	1.09	.94	.79
320320CE	BK-ALU-0034-001	TO-220	1.80x1.50x0.40	..... .30	.285	.279	.227
326596CE	507302B00000	TO-220	0.75x0.38x0.74	..... .25	.23	.20	.18
326609CE	577002B00000	TO-220	0.51x0.25x0.75	..... .30	.23	.215	.20
326617CE	577102B00000	TO-220	0.52x0.37x0.75	..... .25	.23	.215	.20
326625CE	577202B00000	TO-220	0.51x0.49x0.75	..... .27	.23	.215	.20
326641CE	577002B04000	TO-220	0.53x0.50x0.76	..... .30	.277	.255	.234
326650CE	577102B04000	TO-220	0.52x0.38x0.75	..... .27	.261	.249	.234
326676CE	593002B03400	TO-220	—	..... .52	.482	.416	.35
326692CE	531002B05200	TO-220	1.38x0.50x1.00	..... .84	.75	.65	.495
326713CE	531102B02500	TO-220	1.38x0.50x1.51	..... .86	.80	.68	.575
326721CE	531202B00000	TO-220	1.38x0.50x2.00	..... .76	.72	.70	.60
326748CE	531202B02500	TO-220	1.37x0.49x2.00	..... .89	.86	.74	.62
326764CE	531302B02500	TO-220	1.38x0.50x2.50	..... .92	.90	.77	.65

Other Manufacturers — Great Deals

16512CE

151546CE

189835CE

70914CE

129242CE

42622CE/228005CE

40504CE

158051CE

70658CE

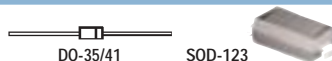
107297CE

.200"
tabs (3) =

Part No.	Cross Ref. No.	Type	Size (L"xW"xH")	1	10	100	1000
16512CE	DUDE4	TO-3	4.80x1.50x1.30	\$2.95	\$2.75	\$2.49	\$2.25
151546CE	635-125B2	TO-3	1.90x1.40x1.30	1.05	.92	.78	.70
189835CE	635-5B2	TO-3	1.9x1.4x0.5	1.03	.93	.83	.76
70914CE	THM6106	TO-220	1.20x1.00x0.50 .....	.35	.30	.28	.26
129242CE	THM6106	TO-220	1.20x1.00x0.50 .....	.49	.45	.39	.35
42622CE	563002B00000	TO-220	1.2x1.0x0.5 .....	.35	.30	.28	.26
228005CE	BK-T220	TO-220	1.2x1.0x0.5 .....	.35	.32	.25	.19
40504CE	291-H-36AB	TO-220	0.9x1.0x0.4 .....	.66	.48	.46	.44
158051CE	577102B00000	TO-220	.75x.52x.38 .....	.39	.35	.29	.25
70658CE	THM6073	TO-220	0.8x0.7x0.4 .....	.29	.269	.26	.25
107297CE	PSC2-U (cup-style)	TO-220	0.8x1.0x0.4 .....	.49	.44	.40	.32

Diodes, Triacs & Transient Voltage Suppressors

Zener Diodes



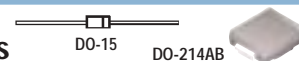
Prepackaged: order in increments of 10, 100, 500 or 1000									
Part No.	Product No.	Mfr.	Pkg.	V _{znom}	Pwr Dissipation	10	100	500	1000
36290CE	1N751A*	♦	DO-35	5.1V	0.5W	..... \$ .06	\$.052	\$.045	\$.022
288665CE	MMSZ4697	♦	SOD-123	10V	0.5W	..... .108	.059	.05	.045
178765CE	1N4730A	♦	DO-41	3.9V	1W	..... .069	.055	.045	.029
178773CE	1N4732A	VSH	DO-41	4.7V	1W	..... .088	.069	.056	.044
178781CE	1N4733A	VSH	DO-41	5.1V	1W	..... .09	.06	.05	.04
36097CE	1N4733A*	♦	DO-41	5.1V	1W	..... .08	.065	.042	.026
178790CE	1N4734A	VSH	DO-41	5.6V	1W	..... .038	.035	.032	.029
36118CE	1N4734A	♦	DO-41	5.6V	1W	..... .073	.055	.05	.045
178781CE	1N4735A	VSH	DO-41	6.2V	1W	..... .049	.044	.04	.036
36126CE	1N4735A*	♦	DO-41	6.2V	1W	..... .07	.045	.041	.035
178811CE	1N4737A	♦	DO-41	7.5V	1W	..... .06	.039	.036	.032
178829CE	1N4738A	♦	DO-41	8.2V	1W	..... .065	.04	.032	.024
178837CE	1N4739A	♦	DO-41	9.1V	1W	..... .063	.042	.035	.032
178845CE	1N4740A	♦	DO-41	10V	1W	..... .045	.039	.032	.028
178853CE	1N4742A	VSH	DO-41	12V	1W	..... .063	.042	.039	.029
36169CE	1N4742A*	♦	DO-41	12V	1W	..... .07	.055	.045	.032
178861CE	1N4744A	VSH	DO-41	15V	1W	..... .063	.042	.039	.029
36185CE	1N4744A	♦	DO-41	15V	1W	..... .058	.035	.026	.021
178888CE	1N4747A	♦	DO-41	20V	1W	..... .039	.036	.032	.029
178896CE	1N4748A	♦	DO-41	22V	1W	..... .032	.029	.027	.024
178909CE	1N4749A	♦	DO-41	24V	1W	..... .042	.039	.035	.032
183450CE	1N4750A	♦	DO-41	27V	1W	..... .022	.02	.018	.016
179004CE	1N5225B	♦	DO-35	3.0V	0.5W	..... .041	.031	.021	.015
288702CE	MMSZ5226B	♦	SOD-123	3.3V	0.5W	..... .107	.067	.064	.045
179021CE	1N5229B	♦	DO-35	4.3V	0.5W	..... .023	.021	.019	.017
179039CE	1N5230B	♦	DO-35	4.7V	0.5W	..... .04	.032	.023	.02
179047CE	1N5231B	♦	DO-35	5.1V	0.5W	..... .04	.035	.03	.027
179055CE	1N5232B	♦	DO-35	5.6V	0.5W	..... .045	.028	.02	.018
179063CE	1N5234B	♦	DO-35	6.2V	0.5W	..... .029	.026	.024	.022
313390CE	MMBZ5241B	♦	SOT-23	11V	0.35W	..... .115	.069	.059	.042
179098CE	1N5242B	♦	DO-35	12V	0.5W	..... .032	.029	.026	.024
179135CE	1N5250B	♦	DO-35	20V	0.5W	..... .034	.03	.027	.02
288788CE	MMSZ5257	♦	SOD-123	33V	0.5W	..... .116	.05	.044	.04
♦ Jameco Value Offering VSH = Vishay *10 pcs. in Diode/rectifier cabinet kit, pg 50									
♣ Blue Part No. = Limited Quantity Available									

Diac/Triacs/Quadrac

Package (see pg 47)

*Prepackaged: order in increments of 10 or 100									
Part No.	Product No.	Mfr.	Pkg.	Type	Rating	1	10	100	
160098CE	HT-32	TEC	DO-35	Diac	27.37 V _{Bo} , 2A	..... *	\$.13	\$.12	
31819CE	SC146B	♦	TO-220	Triac	200 V _{DRM} , 10A (2N6342)	1.29	1.15	.99	
31827CE	SC146M	♦	TO-220	Triac	600 V _{DRM} , 10A (2N6344)	1.99	1.69	1.49	
160178CE	L401E3	TEC	TO-92	Triac	400 V _{DRM} , 1A	..... .65	.56	.52	
160194CE	Q401E3	TEC	TO-92	Triac	400 V _{DRM} , 1A	..... .59	.50	.38	
220468CE	L4004F31	TEC	TO-220AB	Triac	400 V _{DRM} , 4A	..... .73	.70	.664	
160186CE	L4004F51	TEC	TO-220AB	Triac	400 V _{DRM} , 4A	..... .85	.76	.69	
220450CE	L4004L3	TEC	TO-220AB	Triac	400 V _{DRM} , 4A	..... 1.09	.99	.90	
160240CE	Q4004LT	TEC	TO-220AB	Quadrac	400 V _{DRM} , 4A	..... 1.09	.93	.69	
160207CE	Q4008L4	TEC	TO-220AB	Triac	400 V _{DRM} , 8A	..... 1.19	1.06	.97	
220492CE	Q4008R4	TEC	TO-220AB	Triac	400 V _{DRM} , 8A	..... 1.05	.97	.89	
139336CE	Q4015L5	♦	TO-220AB	Triac	400 V _{DRM} , 15A	..... 1.55	1.36	1.25	
160143CE	Q4025L6	TEC	TO-220AB	Triac	400 V _{DRM} , 25A	..... 2.59	2.29	1.91	
160215CE	Q6008L5	TEC	TO-220AB	Triac	600 V _{DRM} , 8A	..... 1.09	.98	.88	
160231CE	Q6015L5	TEC	TO-220AB	Triac	600 V _{DRM} , 15A	..... 1.79	1.63	1.49	
220513CE	Q6025P5	TEC	TO-3	Triac	600 V _{DRM} , 25A	..... 7.59	6.75	5.95	
220505CE	Q6025R6	TEC	TO-220AB	Triac	600 V _{DRM} , 25A	..... 2.25	2.05	1.85	
220521CE	Q6035P5	TEC	TO-3	Triac	600 V _{DRM} , 35A	..... 9.69	8.69	7.89	
140425CE	2N6071A	♦	TO-225AA	Triac	200 V _{DRM} , 4A	..... .29	.27	.25	
♦ Jameco Value Offering TEC = Teccor									

Transient Voltage Suppressors



*Prepackaged: order in increments of 10, 100 or 1000									
Part No.	Product No.	Watts	Pkg.	Min. Brkdw Volt. (V _{BR})	Stand-Off Voltage	1	10	100	1000
254879CE	SA6.0A	500	DO-15	6.67	6.0	..... \$ .24	\$.22	\$.17	\$.13
256701CE	SA12A	500	DO-15	13.3	12.0	..... .14	.13	.12	.11
254991CE	SA12CA	500	DO-15	13.3	12.0	..... .22	.20	.16	.12
254983CE	SA13A	500	DO-15	14.4	13.0	..... *	.14	.12	.09
254975CE	SA15A	500	DO-15	16.7	15.0	..... .26	.23	.19	.14
254967CE	SA20A	500	DO-15	22.2	20.0	..... .20	.18	.14	.11
254916CE	SA24A	500	DO-15	26.7	24.0	..... .28	.25	.20	.15
254908CE	SA28A	500	DO-15	31.1	28.0	..... .24	.22	.17	.13
254895CE	SA30A	500	DO-15	33.3	30.0	..... .31	.28	.22	.17
254887CE	SA30CA	500	DO-15	33.3	30.0	..... .46	.41	.33	.21
256663CE	P6KE6.8A	600	DO-15	6.45	5.8	..... *	.14	.13	.096
256647CE	P6KE7.5A	600	DO-15	7.13	6.4	..... *	.19	.16	.12
256639CE	P6KE9.1A	600	DO-15	8.65	7.8	..... *	.27	.23	.15
288999CE	P6KE10A	600	DO-15	9.5	8.55	..... .43	.332	.185	.122
288981CE	P6KE10CA	600	DO-15	9.5	8.55	..... *	.183	.135	.12
289035CE	P6KE12A	600	DO-15	11.4	10.2	..... .23	.199	.157	.141
289043CE	P6KE12CA	600	DO-15	11.4	10.2	..... *	.183	.134	.119
255943CE	P6KE16A	600	DO-15	15.2	13.6	..... .15	.14	.13	.097
255935CE	P6KE16CA	600	DO-15	15.2	13.6	..... .18	.16	.13	.097
255919CE	P6KE18A	600	DO-15	17.1	15.3	..... .23	.22	.20	.135
255901CE	P6KE18CA	600	DO-15	17.1	15.3	..... .23	.22	.20	.136
255863CE	P6KE20A	600	DO-15	19.0	17.1	..... *	.12	.11	.082
272102CE	P6KE22A	600	DO-15	20.9	18.8	..... *	.125	.109	.103
255855CE	P6KE24A	600	DO-15	22.8	20.5	..... .23	.22	.20	.135
255847CE	P6KE24CA	600	DO-15	22.8	20.5	..... *	.17	.15	.12
255821CE	P6KE27A	600	DO-15	25.7	23.1	..... .31	.28	.22	.17
255812CE	P6KE27CA	600	DO-15	25.7	23.1	..... .28	.25	.20	.15
255804CE	P6KE30A	600	DO-15	28.5	25.6	..... .30	.27	.22	.16
255791CE	P6KE30CA	600	DO-15	28.5	25.6	..... .28	.25	.20	.15
255783CE	P6KE33A	600	DO-15	31.4	28.2	..... .25	.22	.18	.14
255775CE	P6KE33CA	600	DO-15	31.4	28.2	..... .25	.22	.18	.14
255767CE	P6KE36A	600	DO-15	34.2	30.8	..... .23	.22	.20	.136
255759CE	P6KE39A	600	DO-15	37.1	33.3	..... .26	.23	.19	.14
255741CE	P6KE39CA	600	DO-15	37.1	33.3	..... *	.17	.16	.12
256698CE	P6KE47A	600	DO-15	44.7	40.2	..... .20	.19	.18	.13
256680CE	P6KE47CA	600	DO-15	44.7	40.2	..... *	.17	.16	.12
256671CE	P6KE51A	600	DO-15	48.5	43.6	..... .23	.21	.17	.12
256655CE	P6KE68A	600	DO-15	64.6	58.1	..... .26	.23	.19	.14
256621CE	P6KE91A	600	DO-15	86.5	77.8	..... .26	.23	.19	.14
288956CE	P6KE100A	600	DO-15	95	85.5	..... *	.175	.135	.124
316849CE	P6KE100CA	600	DO-15	95	85.5	..... .42	.34	.185	.18
255951CE	P6KE150CA	600	DO-15	143.0	128.0	..... .21	.19	.15	.11
255927CE	P6KE180A	600	DO-15	171.0	154.0	..... .26	.23	.19	.14
255871CE	P6KE200A	600	DO-15	190.0	171.0	..... .38	.34	.27	.21
255839CE	P6KE250CA	600	DO-15	237.0	214.0	..... .26	.23	.19	.14
313146CE	SMCJ5.0A	1500	DO-214AB	6.4	5	..... 1.04	.82	.468	.332
313120CE	SMCJ5.0CA	1500	DO-214AB	6.4	5	..... .61	.506	.495	.483
313103CE	SMCJ6.0A	1500	DO-214AB	6.67	6	..... .73	.56	.55	.54
313218CE	SMCJ10A	1500	DO-214AB	11.1	10	..... .76	.61	.58	.552
313234CE	SMCJ10CA	1500	DO-214AB	11.1	10	..... .61	.51	.465	.442
313200CE	SMCJ20A	1500	DO-214AB	22.2	20	..... .99	.82	.75	.72
313197CE	SMCJ20CA	1500	DO-214AB	22.2	20	..... .62	.515	.48	.46
313171CE	SMCJ24A	1500	DO-214AB	26.7	24	..... .73	.60	.57	.54
313189CE	SMCJ24CA	1500	DO-214AB	26.7	24	..... .76	.58	.302	.255
313162CE	SMCJ36A	1500	DO-214AB	40	36	..... .45	.365	.302	.255
313154CE	SMCJ36CA	1500	DO-214AB	40	36 1.08	.87	.83	.79
313082CE	SMCJ58CA	1500	DO-214AB	64.4	58 1.09	.87	.83	.79



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Silicon Controlled Rectifiers (SCRs)

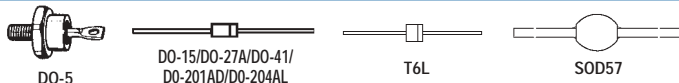
Package (see pg 47)

* Prepackaged: order in increments of 10, 100 or 1000

Part No.	Product No.	Mfr.	Pkg.	Rating	1	10	100	1000
14859CE	C38M	♦	TO-65	600 PRV, 35A (2N3899)	\$6.89	\$6.19	\$5.59	\$5.05
14736CE	C106B1*	♦	TO-202	200 PRV, 4A (2N6239)†	.67	.54	.46	.40
14752CE	C122B	♦	TO-220	200 PRV, 8A†	.73	.66	.63	.52
14761CE	C122M	♦	TO-220	600 PRV, 8A†	1.35	1.25	1.05	.69
220484CE	EC103B	TEC	TO-92	200 V _{DRM} , 0.8A	.23	.21	.19	.18
220530CE	T106B1	TEC	TO-202AB	200 V _{DRM} , 4A	.58	.49	.45	.37
160119CE	T106D1	TEC	TO-202AB	400 V _{DRM} , 4A	.59	.51	.46	.36
119802CE	2N5060	♦	TO-92	25 PRV, 0.8A	.19	.15	.12	
211422CE	2N5061	♦	TO-92	60 PRV, 0.8A	.14	.13	.11	
120070CE	2N5062	♦	TO-92	100 PRV, 0.8A	.13	.12	.11	
211431CE	2N5064	♦	TO-92	200 PRV, 0.8A	.18	.16	.14	
140417CE	2N6507	♦	TO-220AB	400 PRV, 25A	1.05	.99	.85	.75
220548CE	S4025L	TEC	TO-220AB	400 V _{DRM} , 25A	1.65	1.47	1.34	1.29
160135CE	S6025L	TEC	TO-220AB	600 V _{DRM} , 25A	1.75	1.59	1.43	1.22

† Isolated ♦ Jameco Value Offering TEC = Teccor * 10 pcs. in Diode/Rectifier cabinet kit, below

Rectifiers



* Prepackaged: order in increments of 10, 100 or 1000

Part No.	Product No.	Mfr.	Pkg.	Rating	1	10	100	1000
177754CE	T6A05L	♦	T6L	50 PIV, 6A	\$3.36	\$3.32	\$2.88	\$2.65
177762CE	T6A10L	♦	T6L	100 PIV, 6A	.75	.65	.55	.45
177818CE	T6A100L	♦	T6L	1000 PIV, 6A	.80	.72	.65	.49
301444CE	MBR1060	♦	TO-220	60 V _{RRM} , 10A	.63	.56	.48	.43
35924CE	1N1188	♦	DO-5	400 PRV, 35A	4.49	4.45	4.14	3.28
35975CE	1N4001*	♦	DO-41	50 PRV, 1A	.04	.028	.017	
76961CE	1N4002	♦	DO-41	100 PRV, 1A	.04	.028	.017	
76970CE	1N4003	♦	DO-41	200 PRV, 1A	.04	.028	.017	
35991CE	1N4004**	♦	DO-41	400 PRV, 1A	.04	.028	.02	
76988CE	1N4005	♦	DO-41	600 PRV, 1A	.04	.028	.017	
76996CE	1N4006	♦	DO-41	800 PRV, 1A	.04	.028	.017	
36011CE	1N4007*	♦	DO-41	1000 PRV, 1A	.04	.03	.021	
227846CE	1N5059	♦	SOD57	200 V _R , 2A	.10	.06	.054	
227854CE	1N5060	♦	SOD57	400 V _R , 2A	.08	.07	.055	
227862CE	1N5061	♦	SOD57	600 V _R , 2A	.10	.09	.06	
227871CE	1N5062	♦	SOD57	800 V _R , 2A	.11	.09	.08	
214543CE	1N5399	♦	DO-15	1000 PRV, 1.5A	.045	.025	.01	
77075CE	1N5400	♦	DO-27A	50 PRV, 3A	.10	.098	.074	
36249CE	1N5401	♦	DO-27A	100 PIV, 3A	.09	.076	.051	
77083CE	1N5402	♦	DO-27A	200 PRV, 3A	.10	.075	.056	
36265CE	1N5404*	♦	DO-27A	400 PRV, 3A	.10	.09	.067	
36273CE	1N5408*	♦	DO-27A	1000 PRV, 3A	.15	.11	.08	
177949CE	1N5817	♦	DO-204AL	20 PIV, 1A	.12	.09	.078	
177957CE	1N5818	♦	DO-204AL	30 PIV, 1A	.07	.059	.044	
177965CE	1N5819	♦	DO-204AL	40 PIV, 1A	.10	.085	.075	
177973CE	1N5820	♦	DO-201AD	20 PIV, 3A	.14	.125	.115	
177981CE	1N5821	♦	DO-201AD	30 PIV, 3A	.19	.16	.15	
177990CE	1N5822	♦	DO-201AD	40 PIV, 3A	.21	.18	.168	.134

♦ Jameco Value Offering * 10 pcs. ** 100 pcs. in Diode/Rectifier cabinet kit, right

Blue Part No. = Limited Quantity Available

Troubleshooting & Repairing Consumer Electronics without a Schematic

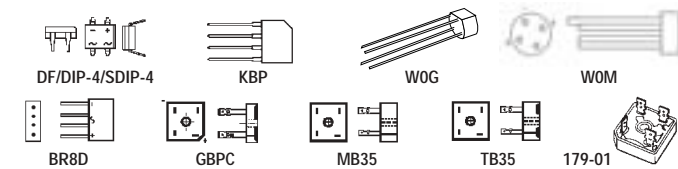
TAB Publishing Learn how to locate, test, and repair defective components in audio amplifiers, car radios, cassette decks, TV chassis, compact disc players, power supplies, AM/FM receivers and VCRs. (475 pages, 1997)

• Size: 7.4" x 9.3" • Weight: 1.1 lbs.



Part No.	Description	Price
136080CE	Troubleshooting & Repairing	\$24.95

Bridge Rectifiers



Part No.	Product No.	Mfr.	Pkg.	Rating	1	10	100	1000
178001CE	DF005M	♦	DF	50 PIV, 1A	.35	.30	.22	.15
255960CE	DF005S	♦	SDIP-4	50 PIV, 1A	.25	.22	.18	.14
103000CE	DF01M	♦	DF	100 PIV, 1A	.30	.26	.21	.17
103042CE	DF02M	♦	DF	200 PIV, 1A	.35	.30	.22	.17
102971CE	DF04M	♦	DF	400 PIV, 1A	.45	.41	.35	.31
103034CE	DF06M	♦	DF	600 PIV, 1A	.32	.30	.25	.21
103026CE	DF10M	♦	DF	1000 PIV, 1A	.30	.27	.23	.15
256559CE	DF10S	♦	SDIP-4	1000 PIV, 1A	.32	.29	.23	.17
256604CE	DF01S	♦	SDIP-4	100 PIV, 1.5A	.29	.23	.21	.18
256591CE	DF02S	♦	SDIP-4	200 PIV, 1.5A	.31	.28	.22	.17
256583CE	DF04S	♦	SDIP-4	400 PIV, 1.5A	.24	.22	.17	.13
256575CE	DF08M	♦	DIP-4	800 PIV, 1.5A	.35	.30	.25	.18
256567CE	DF08S	♦	SDIP-4	800 PIV, 1.5A	.32	.29	.23	.17
145429CE	KBP02M	♦	KBP	200 PIV, 1.5A	.40	.35	.29	.19
119562CE	KBP04M*	♦	KBP	400 PIV, 1.5A	.45	.32	.23	.19
279494CE	W005G	♦	WOG	50 PIV, 1.5A	.35	.29	.26	.165
103018CE	W02G	♦	WOG	200 PIV, 1.5A	.38	.32	.28	.19
102980CE	W04G	♦	WOG	400 PIV, 1.5A	.36	.27	.18	.17
102998CE	W06G	♦	WOG	600 PIV, 1.5A	.38	.34	.27	.20
179469CE	W08G	♦	WOG	800 PIV, 1.5A	.35	.32	.26	.18
279515CE	W10G	♦	WOG	1000 PIV, 1.5A	.34	.30	.21	.18
178124CE	W005M	♦	WOM	50 PIV, 1.5A	.21	.13	.12	.11
178132CE	W01M	♦	WOM	100 PIV, 1.5A	.36	.27	.20	.17
178141CE	W02M	♦	WOM	200 PIV, 1.5A	.38	.33	.28	.19
178175CE	W08M	♦	WOM	800 PIV, 1.5A	.35	.29	.257	.16
178183CE	BR805D	♦	BR8D	50 PIV, 2A	.55	.49	.39	.35
178204CE	BR82D	♦	BR8D	200 PIV, 2A	.85	.77	.69	.62
178247CE	BR810D	♦	BR8D	1000 PIV, 2A	.59	.49	.39	.35
253260CE	2KBP06M	♦	KBP	600 PIV, 2A	.41	.35	.29	.24
253286CE	2KBP10M	♦	KBP	1000 PIV, 2A	.40	.35	.29	.24
179477CE	GBPC25-01	♦	GBPC	100 PIV, 25A	2.49	2.05	1.65	1.43
179485CE	GBPC25-02	♦	GBPC	200 PIV, 25A	3.25	2.69	2.25	1.65
178280CE	MB254	♦	MB35	400 PIV, 25A	2.35	2.11	1.68	1.26
178335CE	TB252	♦	TB35	200 PIV, 25A	2.09	1.85	1.69	1.50
25574CE	MDA990-3	♦	179-01	200 PIV, 30A	3.99	3.45	2.99	1.85
25591CE	MDA990-6	♦	179-01	600 PIV, 30A	4.59	4.29	3.99	3.59
299882CE	GBPC1204	♦	GBPC	400 V _{RRM} , 12A	2.89	2.52	1.35	1.15
299874CE	GBPC1206	♦	GBPC	600 V _{RRM} , 12A	3.15	2.67	1.15	1.09
299866CE	GBPC1206W	♦	GBPC-W	600 V _{RRM} , 12A	1.89	1.55	1.10	1.04
178431CE	MB358	♦	MB35	800 PIV, 35A	3.59	3.29	2.75	1.85
178503CE	TB3510	♦	TB35	1000 PIV, 35A	2.99	2.49	2.09	1.96

♦ Jameco Value Offering * 10 pcs. in Diode/rectifier cabinet kit, below

† DF/KBP/WOG/WOM/179-01 – plastic case; GBPC/TB35 – plastic case, metal base; MB35 – metal case

Diode/Rectifier Assortment Cabinet Kit

420 pcs. (15 types) Diodes, Zener Diodes, Switching and Silicon Rectifiers

Includes:

20 drawer component cabinet (319599CE),
20 clear plastic drawers (319601CE),
20 clear dividers (319610CE), pg 273 and
30 adhesive labels for drawers to identify parts in kit

10 each: 1N270, 1N751A, 1N3600, 1N4001, 1N4007, 1N4733A,
1N4735A, 1N4742A, 1N5404, 1N5408, C106B1, KBP04M
100 each: 1N914, 1N4004, 1N4148

Part No.	Description	Wt. (lbs.)	1	10
82587CE	420 pcs. (15 types) diode kit	5.0	\$39.95	\$35.95
130366CE	Refill for 82587CE (420 pcs.)	0.3	25.95	22.30



Optoisolators

Quantity SAVE



DIP-4



DIP-6



DIP-8



DIP-16



TO-18

Part No.	Cross Ref.	Pkg.	Description	1	10	100
40985CE	4N25	DIP-6	Diode, NPN phototransistor	.22	.18	.17
41005CE	4N26	DIP-6	Diode, NPN phototransistor	.25	.22	.18
144240CE	4N27	DIP-6	Diode, NPN phototransistor	.24	.20	.15
41013CE	4N28	DIP-6	Diode, NPN phototransistor	.46	.372	.282
277421CE	4N29	DIP-6	General purpose photodarlington	.26	.21	.193
277456CE	4N30	DIP-6	General purpose photodarlington	.26	.216	.185
320565CE	4N31	DIP-6	General purpose photodarlington	.30	.273	.235
41021CE	4N32	DIP-6	Diode, NPN photodarlington	.26	.24	.21
41030CE	4N33	DIP-6	Diode, NPN photodarlington	.25	.24	.22
41056CE	4N35	DIP-6	Diode, NPN phototransistor	.24	.216	.213
277464CE	4N36	DIP-6	General purpose phototransistor	.20	.18	.17
320371CE	4N37	DIP-6	General purpose phototransistor	.27	.264	.227
277481CE	4N38	DIP-6	High-voltage phototransistor	.53	.46	.39
277499CE	4N39	DIP-6	Photo SCR optocoupler	.86	.78	.70
277501CE	4N40	DIP-6	Photo SCR optocoupler	.93	.84	.76
277510CE	6N135	DIP-8	High-speed transistor optocoupler	.54	.44	.36
42471CE	6N136	DIP-8	High speed transistor optocoupler	.65	.55	.49
113911CE	6N137	DIP-8	High-speed logic optocoupler	.71	.60	.496
42489CE	6N138	DIP-8	Low input curr., hi-gain split darlington	.67	.57	.462
113929CE	6N139	DIP-8	High-speed, high-gain darlington	.65	.55	.445
320389CE	CNY17-1	DIP-6	High BVceo phototransistor	.26	.225	.153
320397CE	CNY17-2	DIP-6	High BVceo phototransistor	.27	.191	.151
320400CE	CNY17-3	DIP-6	High BVceo phototransistor	.26	.191	.153
320418CE	CNY17-4	DIP-6	High BVceo phototransistor	.26	.191	.153
277561CE	H11A1	DIP-6	General purpose phototransistor	.27	.22	.20
18825CE	H11AA1	DIP-6	Dual infrared diode, NPN phototransistor	.51	.383	.291
277587CE	H11A2	DIP-6	General purpose phototransistor	.30	.21	.17
320434CE	H11AA2	DIP-6	AC input phototransistor optocoupler	.35	.286	.26
277595CE	H11A3	DIP-6	General purpose phototransistor	.34	.26	.21
320442CE	H11AA3	DIP-6	AC input phototransistor optocoupler	.34	.274	.249
281201CE	H11A4	DIP-6	General purpose phototransistor	.34	.30	.23
320451CE	H11AA4	DIP-6	AC input phototransistor optocoupler	.52	.50	.34
320426CE	H11A5	DIP-6	General purpose phototransistor	.30	.183	.168
320573CE	H11B1	DIP-6	Photodarlington optocoupler	.45	.344	.261
320581CE	H11B2	DIP-6	Photodarlington optocoupler	.45	.344	.261
320602CE	H11B3	DIP-6	Photodarlington optocoupler	.48	.432	.403
114016CE	H11C1	DIP-6	Photo SCR optocoupler	.79	.71	.60
18833CE	H11C3	DIP-6	Photo SCR optocoupler	.89	.76	.57
114008CE	H11C4	DIP-6	Photo SCR optocoupler	.83	.71	.53
277608CE	H11C6	DIP-6	Photo SCR optocoupler	.89	.75	.61
320493CE	H11D1	DIP-6	High voltage phototransistor	.57	.382	.361
320514CE	H11D2	DIP-6	High voltage phototransistor	.76	.58	.438
320522CE	H11D3	DIP-6	High voltage phototransistor	.76	.58	.44
113996CE	H11F1	DIP-6	Isolated FET	1.79	1.52	1.14
320186CE	H11F2	DIP-6	Photo FET optocouplers	1.75	1.54	1.18
320194CE	H11F3	DIP-6	Photo FET optocouplers	1.59	1.30	1.25
277712CE	H11G1	DIP-6	High-voltage photodarlington	.51	.47	.39
277721CE	H11G2	DIP-6	High-voltage photodarlington	.67	.55	.42
277747CE	H11G3	DIP-6	High-voltage photodarlington	.62	.52	.40
113988CE	H11L1	DIP-6	Schmitt trigger output photocoupler	1.09	.75	.61
320207CE	H11L2	DIP-6	Photo FET optocouplers	.71	.59	.48
320215CE	H11L3	DIP-6	Photo FET optocouplers	.74	.62	.50
320637CE	H11N1	DIP-6	High speed logic optocoupler	2.05	1.65	1.49
320645CE	H11N2	DIP-6	High speed logic optocoupler	1.89	1.55	1.39
138069CE	ISP817-3	DIP-4	Low power transistor output	.99	.84	.63
114083CE	ISQ203	DIP-16	Quad channel NPN phototransistor	2.95	2.66	1.99
320477CE	MCT2	DIP-6	Phototransistor optocoupler	.42	.316	.24
320485CE	MCT4	TO-18	Hermetic phototransistor optocoupler	7.75	6.25	5.69
24918CE	MCT6	DIP-8	Dual channel NPN phototransistor	.56	.52	.47
26278CE	MOC3010	DIP-6	Bilateral triac driver	.56	.52	.345
95020CE	MOC3011	DIP-6	Bilateral triac driver	.68	.51	.388

Optoisolators (Continued)

Part No.	Cross Ref.	Pkg.	Description	1	10	100
277763CE	MOC3012	DIP-6	Random phase triac driver	\$.76	\$.58	\$.44
277780CE	MOC3020	DIP-6	Random phase triac driver	.54	.41	.31
95038CE	MOC3021	DIP-6	Bilateral triac driver	.46	.39	.29
277801CE	MOC3022	DIP-6	Random phase triac driver	.49	.45	.38
277819CE	MOC3023	DIP-6	Random phase triac driver	.51	.47	.39
26294CE	MOC3031	DIP-6	Zero crossing triac driver	.72	.64	.58
113953CE	MOC3032	DIP-6	Zero crossing triac driver	.61	.55	.52
277827CE	MOC3033	DIP-6	Zero crossing triac driver	.74	.66	.60
277835CE	MOC3041	DIP-6	Zero crossing triac driver	.69	.61	.52
113961CE	MOC3042	DIP-6	Zero crossing triac driver	.65	.55	.43
277843CE	MOC3043	DIP-6	Zero crossing triac driver	.59	.53	.46
277860CE	MOC3051	DIP-6	Random phase triac driver	.73	.66	.60
277894CE	MOC3052	DIP-6	Random phase triac driver	.87	.82	.79
277915CE	MOC3061	DIP-6	Zero crossing phototriac driver	.64	.59	.50
277931CE	MOC3062	DIP-6	Zero crossing phototriac driver	.80	.68	.55
133874CE	MOC3063	DIP-6	Zero crossing triac driver	1.25	1.06	.80
320629CE	MOC3082	DIP-6	Zero crossing optoisolator	1.20	1.01	.88
320611CE	MOC3083	DIP-6	Zero crossing optoisolator	.98	.79	.73
320653CE	PS2501-1	DIP-4	Single transistor photocoupler	.20	.19	.185
320661CE	PS2501-2	DIP-8	Single transistor photocoupler	.51	.459	.418
160338CE	PS2501-4	DIP-16	Photo darlington & transistor/detector	1.09	1.02	.88
320688CE	PS2502-1	DIP-4	Darlington photocoupler	.41	.39	.353
320696CE	PS2502-2	DIP-8	Darlington photocoupler	1.18	.96	.87
160362CE	PS2502-4	DIP-16	Photo darlington & transistor/detector	1.75	1.61	1.39
320709CE	PS2505-1	DIP-4	High isolation voltage photocoupler	.33	.32	.302
320717CE	PS2505-2	DIP-8	High isolation voltage photocoupler	.79	.76	.69
320725CE	PS2505-4	DIP-16	High isolation voltage photocoupler	1.29	1.18	1.06
320750CE	PS2506-1	DIP-4	High isolation voltage photocoupler	.54	.51	.462
320768CE	PS2506-2	DIP-8	High isolation voltage photocoupler	1.09	1.01	.92
320776CE	PS2506-4	DIP-16	High isolation voltage photocoupler	2.15	1.83	1.67
320784CE	PS2532-1	DIP-4	High collector to high emitter volt. photocoupler	.54	.486	.437
320792CE	PS2532-2	DIP-8	High collector to high emitter volt. photocoupler	1.19	1.14	1.04
320805CE	PS2532-4	DIP-16	High collector to high emitter volt. photocoupler	2.25	1.95	1.75
320813CE	PS2561-1	DIP-4	High isolation voltage photocoupler	.23	.22	.21
320821CE	PS2561-2	DIP-8	High isolation voltage photocoupler	.75	.71	.68
320830CE	PS2561-4	DIP-16	High isolation voltage photocoupler	2.29	2.05	1.85

Slotted Optical Switches

4-pin w/ tab



4-pin w/o tab



Part No.	Cross Ref.	Pkg.	Description	1	10	100
114091CE	H21A1	4-pin w/ tab	Single channel slotted interrupter	\$.69	\$.64	\$.554
278011CE	H21A2	4-pin w/ tab	Phototransistor optical interrupter	.99	.71	.58
320901CE	H21A3	4-pin w/ tab	Phototransistor optical switch	.70	.61	.47
320928CE	H21A6	4-pin w/ tab	Phototransistor optical switch	.79	.64	.58
278070CE	H21B1	4-pin w/ tab	Photodarlington optical interrupter	.87	.78	.71
278088CE	H21B2	4-pin w/ tab	Photodarlington optical interrupter	1.09	.79	.74
278096CE	H21B3	4-pin w/ tab	Photodarlington optical interrupter	1.35	1.19	1.09
321007CE	H21B6	4-pin w/ tab	Photodarlington optical switch	.92	.75	.68
114104CE	H22A1	4-pin w/o tab	Slotted optical switch	.61	.51	.462
278029CE	H22A2	4-pin w/o tab	Slotted optical switch	1.15	1.05	.93
278045CE	H22A3	4-pin w/o tab	Slotted optical switch	.74	.623	.504
278109CE	H22B1	4-pin w/o tab	Photodarlington optical interrupter	.75	.68	.56
278117CE	H22B2	4-pin w/o tab	Photodarlington optical interrupter	.87	.71	.64
196058CE	ITR-8105	4-pin w/o tab	Slotted optical switch	.48	.42	.38
321120CE	MOC70P1	4-pin w/o tab	Phototransistor optical switch	.90	.73	.66
321138CE	QVE11233	4-pin w/o tab	Slotted optical switch	.64	.52	.47

30-Day Money-Back Guarantee

If you're not completely satisfied with your purchase, simply return the product within 30 days for a refund or exchange. Details on page 284.

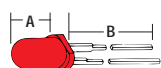


Fig. 1

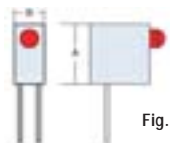


Fig. 2

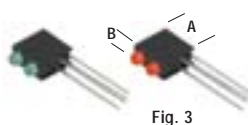


Fig. 3

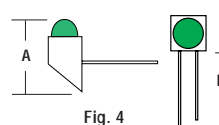


Fig. 4

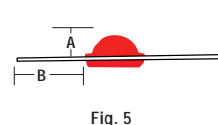


Fig. 5



Fig. 6

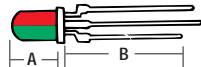


Fig. 7

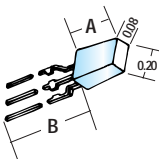


Fig. 8

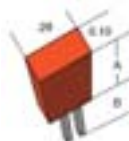


Fig. 9

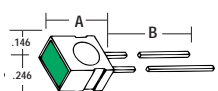


Fig. 10

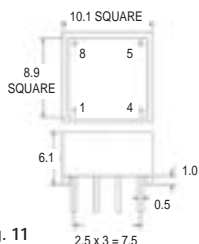


Fig. 11

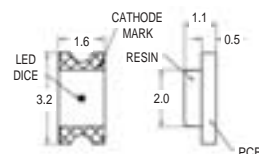


Fig. 12



Fig. 13



Fig. 14



Standard-Output LEDs

Call for OEM PRICING – we carry major manufacturers.

*Prepackaged: order in increments of 10, 100 or 1000

Part No.	Cross Ref. No.	Fig.	Emitting Color	Lens/Feature Description	LED Size	Diameter inch/mm	Dimensions		Lead Spacing	Typical Vf	Typical mcd	Wavelength nm	Viewing Angle	Pricing			
							A*	B*						1	10	100	1000
333219CE	LY12340	1	Yellow	Yellow diffused	T1	.119/3	0.13	0.98	0.10	1.7	6.5	585	112	* .08	.063	.06	
334211CE	LA16BY	2	Yellow	Yellow diffused PCB mount indicators	T1	.119/3	0.29	0.18	0.10	1.7	12	585	50	.30	.284	.146	.102
34657CE	LY2040*	1	Yellow	Yellow diffused (XC209Y)	T1	.119/3	0.16	0.68	0.08	2.3	15	585	36	* .13	.11	.075	
333884CE	UT6331-41	1	Yellow	Yellow diffused	T1	.119/3	0.17	0.98	0.10	2.1	24	589	55	* .088	.069	.049	
333294CE	LVY2643-1	1	Yellow	Water clear	T1	.119/3	0.13	0.98	0.10	1.7	350	595	40	* .16	.152	.144	
206480CE	LVY2041	1	Yellow	Yellow transparent	T1	.119/3	0.17	0.69	0.08	2.3	450	595	30	* .14	.12	.10	
235424CE	LA45B/2I	3	Red	Red diffused (dual)	T1	.119/3	0.40	0.18	0.10	1.7	12	630	50	.99	.89	.71	.53
136282CE	LA44B/2I	3	Orange	Red diffused (dual)	T1	.119/3	0.38	0.17	0.10	1.7	12	635	50	.49	.45	.39	.29
333868CE	UT6341R-41	1	Hi-eff Red	Orange diffused	T1	.119/3	0.17	1.00	0.10	2.1	35	630	55	* .098	.06	.045	
333366CE	LHRF2643-1	1	Red	Water clear	T1	.119/3	0.13	0.98	0.10	1.5	300	630	40	* .174	.152	.144	
333198CE	LE12340	1	Hi-eff Red	Orange diffused	T1	.119/3	0.13	0.98	0.10	1.7	6.5	635	112	* .079	.064	.057	
333876CE	UT6314R-41	1	Hi-eff Red	Red diffused	T1	.119/3	0.17	1.00	0.10	2.1	12	635	40	.27	.213	.102	.066
333171CE	HLMP-K155-JV	1	Red	Red clear	T1	.119/3	0.19	1.04	0.10	1.6	3.0	660	45	* .079	.078	.057	
333850CE	UT6371-41-M1	1	Red	Red diffused	T1	.119/3	0.17	0.98	0.10	1.7	63	660	47	* .098	.064	.061	
333251CE	LSR2643-1	1	Red	Water clear	T1	.119/3	0.13	0.98	0.10	1.5	120	660	40	.20	.196	.128	.109
333260CE	LHR2643-1	1	Red	Water clear	T1	.119/3	0.13	0.98	0.10	1.5	300	660	40	.28	.19	.152	.144
206498CE	LHR2041	1	Red	Red transparent	T1	.119/3	0.17	0.69	0.08	2.0	350	660	30	* .15	.12	.09	
334203CE	LA16B/H	2	Red	Red diffused PCB mount indicators	T1	.119/3	0.29	0.18	0.10	1.7	4.2	697	50	.30	.284	.146	.102
94529CE	LH2040*	1	Red	Red diffused (XC209RB)	T1	.119/3	0.18	1.04	0.07	2.3	4.5	697	36	* .19	.15	.12	
114673CE	LH2043*	1	Red	Water clear (BR209)	T1	.119/3	0.14	0.98	0.07	2.3	12	697	30	* .19	.15	.12	
94553CE	LHG2062	1	Red/Green	White diffused bi-color/bi-state ¹	T1	.119/3	0.18	1.06	0.08	2.3	3 & 15	697/565	36	.29	.25	.21	.16
333391CE	UT6341-41	1	Orange	Orange diffused	T1	.119/3	0.17	0.94	0.10	2.1	35	630	55	.22	.182	.084	.068
333833CE	LI12340	1	Orange	Red diffused	T1	.119/3	0.16	0.98	0.10	1.7	6.5	635	112	* .098	.076	.054	
34606CE	LSG2040*	1	Green	Green diffused (XC209G)	T1	.119/3	0.13	1.05	0.08	2.2	15	560	50	* .15	.11	.08	
333201CE	LG12340	1	Green	Green diffused	T1	.119/3	0.13	0.98	0.10	1.7	9.6	565	112	* .08	.063	.06	
211087CE	LG2040	1	Green	Green diffused	T1	.119/3	0.13	1.10	0.10	2.1	12.6	565	36	* .11	.094	.071	
334220CE	LA16B/G	2	Green	Green diffused PCB mount indicators	T1	.119/3	0.29	0.18	0.10	1.7	15	565	50	.30	.284	.146	.102
235416CE	LA45B/2G	3	Green	Green diffused (dual)	T1	.119/3	0.40	0.18	0.10	1.7	15	565	50	.99	.89	.71	.53
136274CE	LA44B/2G	3	Green	Green diffused (dual)	T1	.119/3	0.38	0.17	0.10	2.3	15	565	50	.49	.45	.39	.29
333315CE	MV7441-JV	1	Green	Water clear	T1	.119/3	0.13	0.98	0.10	1.7	120	565	40	* .17	.145	.124	
175679CE	LVG2041	1	Green	Green transparent	T1	.119/3	0.17	0.69	0.08	2.2	129	565	30	* .15	.11	.08	
114681CE	LVG2043*	1	Green	Water clear (BG209)	T1	.119/3	0.14	0.98	0.07	2.2	129	565	30	* .09	.07	.055	
137411CE	LVB2040	1	Blue	Blue diffused	T1	.119/3	0.21	0.98	0.10	4.8	10	430	50	2.49	2.25	1.95	1.69
334457CE	LSBI2640	1	Blue	Blue diffused	T1	.197/5	0.17	0.98	0.10	3.8	50	430	—	.75	.73	.69	.66
33382CE	UT63B1-41-M1A2	1	Blue	Blue diffused	T1	.119/3	0.17	0.98	0.10	3.8	50	466	54	.75	.714	.68	.66
34825CE	LY3330*	1	Yellow	Yellow diffused (XC556Y)	T1 3/4	.197/5	0.30	0.82	0.07	2.3	12	585	36	* .19	.15	.12	
104264CE	LA93B/Y-1	4	Yellow	Yellow diffused (XC410Y)	T1 3/4	.197/5	0.35	0.89	0.08	2.3	25	585	46	.35	.316	.256	.219
334406CE	LY9033	5	Yellow	Water clear	T1 3/4	.197/5	0.05	0.27	0.03	1.7	30	585	20	* .176	.104	.099	
175695CE	LVY3333*	1	Yellow	Water clear	T1 3/4	.197/5	0.30	1.07	0.08	2.1	60	585	20	* .19	.15	.12	
334107CE	UT1831-81-S	1	Yellow	Yellow diffused	T1 3/4	.197/5	0.34	0.98	0.10	2.1	16.4	589	44	* .098	.064	.061	
333964CE	UT1834-81-S	1	Yellow	Yellow Clear	T1 3/4	.197/5	0.34	0.98	0.10	2.1	55.8	589	22	* .098	.069	.049	
334385CE	UT1833-81-M181	1	Yellow	Water clear	T1 3/4	.197/5	0.34	0.98	0.10	2.1	450	590	10	* .098	.064	.061	

*10 pcs. in LEDs & LED Mounting Hardware cabinet kit, pg 58

More Mounting Hardware listed on pages 56-58 and LEDs on pages 59 & 60

Part No.	Cross Ref. No.	# Fig.	Emitting Color	Lens/Feature Description	LED Size	Diameter inch/mm	Dimensions		Lead Spacing	Typical Vf	Typical mcd	Wavelength nm	Viewing Angle	Pricing			
							A*	B*						1	10	100	1000
333622CE	LHY3330/HO	1	Yellow	Yellow diffused	T1 3/4	.197/5	0.34	0.98	0.10	1.7	350	595	40	\$.31	\$.30	\$.192	\$.154
334377CE	UT1841R-81	1	Hi-eff Red	Red diffused	T1 3/4	.197/5	0.34	0.98	0.10	2.1	23.1	630	44	*	.098	.064	.061
334060CE	UT1841R-81-S	1	Hi-eff Red	Red diffused	T1 3/4	.197/5	0.34	0.94	0.10	2.1	23.1	630	44	.27	.213	.102	.066
333921CE	UT1844R-81-S	1	Hi-eff Red	Red clear	T1 3/4	.197/5	0.34	0.98	0.10	2.1	78.8	630	22	*	.098	.069	.049
334271CE	LA93B/I	4	Hi-eff Red	Red diffused PCB mount indicators	T1 3/4	.197/5	0.36	0.15	0.10	1.7	25	635	46	.30	.284	.146	.115
34711CE	LEG3362*	1	Red/Green	White diffused bi-color/bi-state ¹	T1 3/4	.197/5	0.30	1.01	0.09	2.3	7.5	635/565	30	.33	.28	.22	.19
333972CE	UT1871-81-M1	1	Red	Red diffused	T1 3/4	.197/5	0.34	0.98	0.10	1.7	75	660	25	*	.098	.064	.061
334115CE	UT1872-81-M1	1	Red	White diffused	T1 3/4	.197/5	0.34	1.00	0.10	1.7	75	660	25	.25	.225	.122	.08
333454CE	LSR3330/HO/A	1	Red	Red diffused	T1 3/4	.197/5	0.34	1.00	0.10	1.5	140	660	40	*	.14	.128	.113
333462CE	LHR3330/HO/A	1	Red	Red diffused	T1 3/4	.197/5	0.34	0.98	0.10	1.5	220	660	40	.23	.219	.146	.104
334035CE	UT1871-81-UR-P18	1	Red	Red diffused	T1 3/4	.197/5	0.34	0.94	0.10	1.9	250	660	25	*	.098	.076	.054
333489CE	LUR3330/HO/A	1	Red	Red diffused	T1 3/4	.197/5	0.34	0.98	0.10	1.5	380	660	40	.20	.174	.146	.104
94511CE	LH3330	1	Red	Red diffused (XC556RB)	T1 3/4	.197/5	0.31	0.81	0.08	2.3	3	697	36	*	.17	.13	.10
104248CE	LA93B/H-1*	4	Red	Red diffused (XC410R)	T1 3/4	.197/5	0.35	0.89	0.08	2.3	6.5	697	46	*	.23	.19	.17
34745CE	LH3333	1	Red	Water clear (XC554R)	T1 3/4	.197/5	0.30	1.00	0.08	2.3	7.5	697	20	*	.15	.11	.065
334174CE	LHI3360	6	Red/Orange	Red diffused bi-color/solid state ¹	T1 3/4	.197/5	0.34	0.98	0.10	1.7	2.0 & 3.0	697/635	30	.25	.213	.128	.092
334182CE	LGH3362	6	Red/Green	White diffused bi-color/solid state ¹	T1 3/4	.197/5	0.34	0.98	0.10	1.7	2.0 & 8.0	697/565	30	.23	.222	.146	.104
34673CE	LHG3392*	7	Red/Green	White diffused bi-color/tri-state ¹	T1 3/4	.197/5	0.30	1.02	0.03	2.3	3 & 12	697/565	70	.24	.22	.20	.14
334051CE	UT1841-81-S	1	Orange	Orange diffused	T1 3/4	.197/5	0.34	0.98	0.10	2.1	23.1	630	44	.22	.176	.102	.066
333243CE	UT2462-24-D51	7	Orange/Green	White diffused bi-color/tri-state ¹	T1 3/4	.197/5	0.30	0.80	0.10	2.1	11.7	630/572	70	.23	.219	.119	.104
107393CE	LE3330	1	Orange Red	Orange diffused (XC556A)	T1 3/4	.197/5	0.30	1.02	0.08	2.3	12	635	36	*	.11	.07	.06
333235CE	LI13530	1	Orange	Red diffused	T1 3/4	.197/5	0.34	0.98	0.10	1.7	15	635	70	*	.12	.103	.065
334001CE	LI3330	1	Orange	Orange diffused	T1 3/4	.197/5	0.35	1.00	0.10	1.7	24	635	36	*	.098	.069	.049
333913CE	LE3331	1	Orange	Orange transparent	T1 3/4	.197/5	0.34	0.98	0.10	1.7	75	635	20	*	.118	.069	.049
34761CE	LG3330*	1	Green	Green diffused (XC556G)	T1 3/4	.197/5	0.31	0.79	0.09	2.3	12	565	36	*	.15	.14	.10
334086CE	LG13740	1	Green	Green diffused	T1 3/4	.197/5	0.34	0.98	0.10	1.7	20	565	68	*	.098	.064	.061
333227CE	LG13530	1	Hi-eff Green	Green diffused	T1 3/4	.197/5	0.34	0.98	0.10	1.7	25	565	70	*	.12	.102	.065
104256CE	LA93B/G-1*	4	Green	Green diffused (XC410G)	T1 3/4	.197/5	0.35	0.89	0.08	2.3	30	565	46	*	.23	.19	.17
11359CE	LG3333*	1	Green	Water clear (BG5704)	T1 3/4	.197/5	0.30	1.04	0.07	2.3	100	565	20	*	.22	.20	.16
333956CE	LG3331	1	Green	Green transparent	T1 3/4	.197/5	0.34	0.98	0.10	1.7	150	565	20	*	.098	.064	.061
333534CE	LVG3333/S46	1	Green	Water clear	T1 3/4	.197/5	0.34	0.98	0.10	1.7	220	565	30	.23	.222	.147	.104
334393CE	UT1821-81-S	1	Green	Green diffused	T1 3/4	.197/5	0.35	1.00	0.10	2.1	20	572	44	*	.098	.064	.061
333948CE	UT1824-81-S	1	Green	Water clear	T1 3/4	.197/5	0.34	0.98	0.10	2.1	68.1	572	22	*	.108	.069	.049
138691CE	LVB3330	1	Blue	Blue diffused	T1 3/4	.197/5	0.34	0.98	0.10	4.8	10	430	36	2.15	2.04	1.95	1.79
137613CE	LSBI3333	1	Blue	Water clear	T1 3/4	.197/5	0.34	0.98	0.08	3.8	160	430	15	2.29	2.04	1.63	1.22
134332CE	LT18B3-81UR	1	Blue	Water clear (383UBC)	T1 3/4	.197/5	0.30	0.93	0.10	3.8	350	428	20	2.65	2.45	2.25	1.95
94561CE	LFG3360	1	Green	Green diffused blinking (XC5408) [†]	T1 3/4	.197/5	0.30	1.05	0.08	3-12V	17	565	N/A	.59	.53	.48	.43
351038CE	MCDL-517GD-F	1	Green	Green diffused blinking	T1 3/4	.197/5	0.34	1.00	0.10	2.0	15	565	120	.51	.419	.289	.278
351046CE	MCDL-517YD-F	1	Yellow	Yellow diffused blinking	T1 3/4	.197/5	0.34	1.00	0.10	2.1	20	585	120	.51	.419	.289	.278
351054CE	MCDL-517AD-F	1	Amber	Amber diffused blinking	T1 3/4	.197/5	0.34	1.00	0.10	2.1	20	585	120	.51	.419	.289	.278
351011CE	MCDL-517ED-F	1	Hi-eff Red	Red diffused blinking	T1 3/4	.197/5	0.34	1.00	0.10	1.7	20	635	120	.51	.419	.354	.278
351020CE	MCDL-517ED-EF	1	Orange	Orange diffused blinking	T1 3/4	.197/5	0.34	1.00	0.10	2.1	20	635	120	.51	.419	.354	.278
351062CE	MCDL-517SRD-F	1	Super Red	Red diffused blinking	T1 3/4	.197/5	0.34	1.00	0.10	1.8	200	660	120	.57	.469	.323	.31
351071CE	MCDL-517LRD-F	1	Super Red	Red diffused blinking	T1 3/4	.197/5	0.34	1.00	0.10	1.8	300	660	120	.57	.469	.323	.31
351097CE	MCDL-517URC-UI4-F	1	Super Red	Water clear blinking	T1 3/4	.197/5	0.34	1.00	0.10	1.8	300	660	30	.57	.469	.323	.31
34690CE	LFH3360*	1	Red	Red diffused blinking (XC5410) [†]	T1 3/4	.197/5	0.30	0.94	0.07	3-12V	2.8	697	N/A	.49	.45	.39	.35
138860CE	LFH3363	1	Red	Water clear blinking [†]	T1 3/4	.197/5	0.35	1.06	0.10	3-12V	9	697	N/A	.56	.51	.403	.299
351003CE	MCDL-517HD-F	1	Bright Red	Red diffused blinking	T1 3/4	.197/5	0.34	1.00	0.10	2.1	5.0	700	120	.52	.47	.413	.296
119634CE	LHR3930	1	Red	Red diffused Jumbo (LT9952L)	T2 1/2	.315/8	0.44	0.84	0.07	2.0	100	660	44	.23	.20	.15	.13
137621CE	LVG3930	1	Green	Green diffused Jumbo	T2 1/2	.315/8	0.43	1.04	0.07	2.3	40	565	44	.23	.211	.192	.122
98992CE	LY3630	1	Yellow	Yellow diffused XJumbo (XC10Y)	T3 1/2	.394/10	0.54	1.04	0.08	2.3	15	585	42	.29	.26	.21	.16
138683CE	LHR3630	1	Red	Red diffused XJumbo (XC10R)	T3 1/2	.394/10	0.40	1.04	0.10	2.0	100	660	32	.36	.325	.275	.225
98984CE	LVG3630	1	Green	Green diffused XJumbo (XC10G)	T3 1/2	.394/10	0.40	1.07	0.08	2.3	40	565	32	.27	.26	.19	.13
379647CE	MCDL-833YD	1	Yellow	Yellow diffused	T3 1/2	.393/10	0.47	1.00	0.10	2.1	25	590	60	.66	.58	.48	.358
379639CE	MCDL-833ED	1	Hi-eff Red	Red diffused	T3 1/2	.393/10	0.47	1.00	0.10	2.0	25	635	60	.66	.58	.48	.358
379663CE	MCDL-833SRD	1	Super Red	Red diffused	T3 1/2	.393/10	0.47	1.00	0.10	1.8	200	660	60	.76	.67	.54	.411
379604CE	MCDL-833DG	1	Green	Green diffused	T3 1/2	.393/10	0.47	1.00	0.10	2.2	20	570	60	.66	.58	.48	.358
104889CE	LEG5292	8	Red/Green	White diff. bi-color rectangular ¹	2 x 5	—	0.27	1.02	0.08	2.3	6/6	695/565	116	.23	.215	.20	.15
333796CE	UT7231-81	9	Yellow	Yellow diffused rectangular	2.3x7.1	—	0.29	0.94	0.10	2.1	5.0	585	70	.29	.241	.119	.085
333761CE	UT7241-81	9	Hi-eff Red	Orange diffused rectangular	2.3x7.1	—	0.29	0.94	0.10	2.1	7.2	635	70	*	.127	.08	.074

See pg 52 for figures * 10 pcs. in LEDs & LED Mounting Hardware cabinet kit, pg 61 ¹ Reverse polarity to change color [†] Volt. shown is operating volt. range; no current limiting resistor required.


JAMECO ValuePro

Standard Output LEDs (Continued)

Call for OEM PRICING – we carry major manufacturers. *Prepackaged: order in increments of 10, 100 or 1000

See pg 52 for figures

Part No.	Cross Ref. No.	# Fig.	Emitting Color	Lens/Feature Description	LED Size	Diameter inch/mm	Dimensions		Lead Spacing	Typical Vf	Typical mcd	Wavelength nm	Viewing Angle	Pricing			
							A"	B"						1	10	100	1000
333770CE	UT7241R-81	9	Hi-eff Red	Red diffused rectangular	2.3 x 7.1	—	0.29	0.94	0.10	2.1	7.2	635	70	* .12	\$.102	\$.074	
333788CE	UT7222-81	9	Green	White diffused rectangular	2.3 x 7.1	—	0.29	0.94	0.10	2.1	6.1	567	70	.29	.241	.119	.085
333702CE	UT7321-81	10	Green	Green diffused rectangular	3.2 x 6.2	—	0.28	0.80	0.10	2.1	8.8	567	60	.23	.207	.146	.105
333711CE	UT7331-81	10	Yellow	Yellow diffused rectangular	3.2 x 6.2	—	0.28	0.80	0.10	2.1	7.2	585	60	.25	.238	.158	.112
333690CE	UT7341R-81	10	Orange	Red diffused rectangular	3.2 x 6.2	—	0.28	0.80	0.10	2.1	10.1	635	60	.23	.207	.146	.105
94545CE	LG25030††	10	Green	Green diff. rect. (XC57124G)	3.5 x 6	—	0.26	1.06	0.08	2.3	5.2	565	100	* .19	.16	.15	
333745CE	UT5221-81	9	Green	Green diffused rectangular	5.2 x 7.8	—	0.30	1.03	0.10	2.1	7.1	572	82	* .088	.056	.053	
333753CE	UT5231-81	9	Yellow	Yellow diffused rectangular	5.2 x 7.8	—	0.30	1.03	0.10	2.1	5.9	589	82	* .108	.076	.054	
333737CE	UT521R-81	9	Hi-eff Red	Red diffused rectangular	5.2 x 7.8	—	0.30	1.03	0.10	2.1	8.3	630	82	* .098	.076	.054	
334650CE	UB3541R-11 NRAK	11	Orange	0.35" lightbar	8.9 x 10.1	—	—	—	0.10	2.1	7.8	635	N/A	.80	.70	.48	.408
334668CE	UB3531-11 NYAK	11	Yellow	0.35" lightbar	8.9 x 10.1	—	—	—	0.10	2.1	5.5	585	N/A	.83	.70	.48	.401
334676CE	UB3521-11 NGAK	11	Green	0.35" lightbar	8.9 x 10.1	—	—	—	0.10	2.1	6.8	567	N/A	.83	.70	.48	.396
334326CE	LG-150Y-DT	12	Yellow	White diffused SMD 1206	SMD1206	—	0.06	0.13	—	1.7	5	585	150	* .13	.105	.085	
334297CE	LG-150Y-CT	12	Yellow	Water clear SMD 1206	SMD1206	—	0.07	0.13	—	1.7	6.0	588	150	* .19	.147	.084	
334318CE	LG-150E-DT	12	Hi-eff Red	White diffused SMD 1206	SMD1206	—	0.06	0.13	—	1.7	8	635	150	* .19	.147	.085	
334289CE	LG150E-CT	12	Orange	Water clear SMD 1206	SMD1206	—	0.07	0.13	—	1.7	6.0	635	150	* .147	.104	.084	
334334CE	LG-150G-DT	12	Green	White diffused SMD 1206	SMD1206	—	0.06	0.13	—	1.7	10	573	140	* .118	.095	.078	
334300CE	LG-150G-CT	12	Green	Water clear SMD 1206	SMD1206	—	0.07	0.13	—	1.7	12.5	573	140	* .158	.112	.085	
334781CE	LG-150DBK-CT	12	Blue	Water clear SMD 1206	SMD1206	—	0.06	0.13	—	3.5	40	470	150	2.29	2.20	1.72	1.31
334351CE	LY9553/TR1	13	Yellow	Water clear surface mount	PLCC-2	—	0.12	1.30	—	1.7	7.0	585	84	* .15	.114	.102	
334369CE	LG9553/TR1	13	Green	Water clear surface mount	PLCC-2	—	0.12	1.30	—	1.7	9.0	565	84	* .15	.114	.103	

Dialight
MCD

Other Manufacturers — Great Deals

LITEON

202489CE	MVL-301Y	1	Yellow	Yellow diffused	T1	.119/3	0.14	1.12	0.10	2.1	9.0	585	N/A	* .171	\$.145	\$.109	
211086CE	LTL-4231N-022	1	Green	Green diffused	T1	.119/3	0.13	1.10	0.10	2.1	12.6	565	N/A	* .099	.084	.063	
202471CE	MVL-301HR	1	Orange Red	Red diffused	T1	.119/3	0.14	1.12	0.10	2.0	9.0	640	N/A	* .062	.056	.05	
135597CE	LTL307E*	1	Orange Red	Red diffused	T1 3/4	.197/5	0.34	1.00	0.07	2.0	19	635	N/A	* .115	.081	.073	
26745CE	MCDL-170EC	5	Red	Water clear	T 3/4	.083/2.1	0.06	0.25	0.11	2.1	7	635	N/A	.23	.207	.189	.18
320282CE	566-0306	14	Yellow	Yellow diffused rectangular	2 x 5mm	—	0.28	0.11	0.10	2.1	3.5	583	N/A	.89	.76	.46	.40
320274CE	566-0206	14	Green	Green diffused rectangular	2 x 5mm	—	0.28	0.11	0.10	2.2	4	565	N/A	1.15	.94	.53	.515
320291CE	566-0406	14	Red	Red diffused rectangular	2 x 5mm	—	0.28	0.11	0.10	2	7.4	635	N/A	.89	.76	.46	.404

See pg 52 for figures

†† For mounting hardware see pg 56-58

*10 pcs. in LEDs & LED Mounting Hardware cabinet kit, pg 58

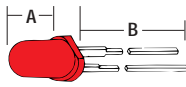


Fig. 1



Fig. 2



Fig. 3

*Prepackaged: order in increments of 10, 100 or 1000

JAMECO ValuePro

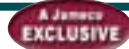
Medium-Output LEDs

Part No.	Cross Ref. No.	# Fig.	Emitting Color	Lens/Feature Description	LED Size	Diameter inch/mm	Dimensions		Lead Spacing	Typical Vf	Typical mcd	Wavelength nm	Viewing Angle	Pricing			
							A"	B"						1	10	100	1000
333307CE	LUY2643-1	1	Yellow	Water clear	T1	.119/3	0.13	0.98	0.10	1.7	900	595	40	\$.26	\$.174	\$.161	\$.145
333278CE	LUR2643-1	1	Red	Water clear	T1	.119/3	0.13	0.98	0.10	1.5	550	660	—	* .16	.154	.147	
333374CE	LURF2643-1	1	Red	Water clear	T1	.119/3	0.13	0.98	0.10	1.5	550	630	40	* .158	.153	.146	
333340CE	LHE2643	1	Orange	Water clear	T1	.119/3	0.13	0.98	0.10	1.7	700	620	40	* .158	.144	.137	
333358CE	LUE2643	1	Orange	Water clear	T1	.119/3	0.13	0.98	0.10	1.7	900	620	40	.21	.19	.176	.158
334748CE	UT63B3-41-UR33	1	Blue	Water clear	T1	.119/3	0.17	0.94	0.10	3.2	900	470	45	1.26	1.21	.92	.66
206501CE	LVY3331	1	Yellow	Yellow transparent	T1 3/4	.197/5	0.24	1.07	0.07	2.2	700	595	20	* .19	.15	.12	
206519CE	LHR3331	1	Red	Red transparent	T1 3/4	.197/5	0.24	1.07	0.07	2.0	660	550	20	* .19	.15	.12	
334490CE	LHRF3333/S46/A	1	Red	Water clear	T1 3/4	.197/5	0.34	0.98	0.10	1.5	700	630	30	.37	.323	.157	.109
351089CE	MCDL-517URD-F	1	Super Red	Red diffused blinking	T1 3/4	.197/5	0.34	1.00	0.10	1.8	500	660	120	.57	.469	.323	.31
333420CE	LSR3331	1	Red	Red transparent	T1 3/4	.197/5	0.34	0.98	0.10	1.5	550	660	20	* .118	.08	.072	
333497CE	LSR13233	1	Red	Water clear	T1 3/4	.197/5	0.35	0.98	0.10	1.5	720	660	18	* .176	.098	.085	
333631CE	LUE13733	1	Orange	Water clear	T1 3/4	.197/5	0.34	0.98	0.10	1.7	700	620	25	.24	.21	.191	.172
153154CE	LVG3333	1	Green	Water clear (HLMP-8509)	T1 3/4	.197/5	0.36	0.90	0.10	2.3	500	565	20	* .14	.10	.08	
333551CE	LVG13233	1	Green	Water clear	T1 3/4	.197/5	0.35	0.98	0.10	1.7	600	565	18	.23	.219	.146	.138
333542CE	LVG3833	1	Green	Water clear	T1 3/4	.197/5	0.34	0.98	0.10	1.7	550	565	12	* .16	.149	.138	
334465CE	LDBK3331/H0	1	Blue	Blue transparent	T1 3/4	.197/5	0.34	0.98	0.10	3.5	900	470	26	1.79	1.46	1.29	1.07
334756CE	UT5KW3-AA-UAE3-TO1	2	White	Water clear	SMD1206	—	.08	0.14	—	3.2	550	—	120	2.35	2.19	1.99	1.62

BrightView

Other Manufacturers — Great Deals

210825CE	BVU-5MIQ1	1	Orange Red	Red diffused	T1 3/4	.197/5	0.30	1.07	0.08	2.1	600	615	—	\$.44	\$.40	\$.32	\$.24
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High-Output LEDs

• Typical DC forward current 20mA

See pages 56-58 for LED Mounting Hardware

Fig. 1

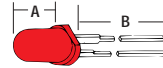
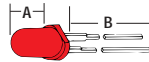


Fig. 2



* Prepackaged: order in increments of 10, 100 or 1000

Part No.	Cross Ref. No.	Fig.	Emitting Color	Lens/Feature Description	LED Size	Diameter inch/mm	Dimensions		Lead Spacing	Typical Vf	Typical mcd	Wavelength nm	Viewing Angle	Pricing			
							A"	B"						1	10	100	1000
334764CE	CMD204UWC-JV	1	White	Water clear	T1	.119/3	0.20	1.00	0.10	3.7	1000	475	30	\$2.35	\$2.29	\$1.71	\$1.54
217525CE	MCDPW-3004C	1	White	Water clear	T1	.119/3	0.18	1.00	0.10	3.8	3000	—	30	2.99	2.85	2.69	2.55
333577CE	LUYS3333	1	Yellow	Water Clear	T1 3/4	.197/5	0.34	0.98	0.10	1.7	2700	587	20	.30	.285	.177	.145
197675CE	BVT-5E1TT4E	1	Yellow	Water clear	T1 3/4	.197/5	0.30	1.08	0.08	2.3	2800	592	15	.45	.36	.29	.27
333614CE	LUY3833H	1	Yellow	Water clear	T1 3/4	.197/5	0.34	0.98	0.10	1.7	5000	590	12	.31	.261	.239	.215
333569CE	LUY3333/A	1	Yellow	Water clear	T1 3/4	.197/5	0.35	1.00	0.10	1.7	1500	595	20	.30	.285	.177	.124
333593CE	LHY3833	1	Yellow	Water clear	T1 3/4	.197/5	0.35	1.00	0.10	1.7	1500	595	20	.30	.285	.265	.178
333606CE	MV8315-JV	1	Yellow	Water clear	T1 3/4	.197/5	0.34	0.98	0.10	1.7	2700	595	12	.31	.28	.21	.181
197616CE	BVU-5E1QH4E	1	Red	Water clear	T1 3/4	.197/5	0.30	1.05	0.08	1.8	2180	630	15	.39	.35	.29	.25
334422CE	UT9C13-86-UDC2	1	Red	Water clear	T1 3/4	.197/5	0.34	0.98	0.10	1.9	2700	630	18	.20	.196	.157	.109
334481CE	UT1813-86-UC9T-P27	1	Ultra Red	Water clear	T1 3/4	.197/5	0.34	0.94	0.10	2.2	3500	642	15	.20	.196	.157	.146
152864CE	BVU-501RD4	1	Red Super Bright	Water clear	T1 3/4	.197/5	0.34	0.89	0.10	1.9	1000	660	20	.29	.24	.19	.15
333438CE	UT1873-81-UR	1	Red	Water clear	T1 3/4	.197/5	0.34	0.94	0.10	1.9	1000	660	10	*	.19	.119	.085
333446CE	UT1873-81-UR-P22	1	Red	Water clear	T1 3/4	.197/5	0.34	0.98	0.10	1.9	1200	660	25	*	.19	.119	.098
333518CE	LUR13233	1	Red	Water clear	T1 3/4	.197/5	0.35	0.98	0.10	1.5	2400	660	18	*	.19	.147	.11
333526CE	LUR3833	1	Red	Water clear	T1 3/4	.197/5	0.35	0.98	0.10	1.5	2700	660	12	*	.16	.119	.107
333500CE	LHR3833/A	1	Red	Water clear	T1 3/4	.197/5	0.35	0.98	0.10	1.5	1500	660	12	*	.19	.119	.085
333665CE	LEF3833	1	Orange	Water clear	T1 3/4	.197/5	0.34	0.98	0.10	1.7	1700	620	12	.30	.29	.20	.178
333649CE	LHE3333	1	Orange	Water clear	T1 3/4	.197/5	0.34	0.98	0.10	1.7	1800	620	20	.30	.285	.177	.124
333657CE	LUE3333	1	Orange	Water clear	T1 3/4	.197/5	0.34	0.98	0.10	1.7	3400	620	20	.29	.237	.208	.178
333673CE	LUE3833	1	Orange	Water clear	T1 3/4	.197/5	0.34	0.98	0.10	1.7	5000	620	12	.30	.27	.177	.159
131895CE	TLSH180P	1	Orange	Water clear	T1 3/4	.197/5	0.39	0.80	0.10	2.1	10000	623	8	2.49	2.19	1.95	1.79
197683CE	BVT-5E1QT4ER	1	Orange Red	Water clear	T1 3/4	.197/5	0.29	1.08	0.08	2.3	4650	634	15	.69	.59	.49	.39
334473CE	LDGL3333/H0	1	Green	Water clear	T1 3/4	.197/5	0.34	0.98	0.10	3.5	3400	502	22	1.79	1.45	1.29	1.05
183214CE	MCDPG-503PC1	1	Green	Water clear	T1 3/4	.197/5	0.30	1.04	0.08	3.5	2200	515	10-15	2.95	2.65	2.39	2.15
183222CE	MCDL-513SBC4	1	Blue	Water clear	T1 3/4	.197/5	0.29	1.02	0.08	3.6	3000	470	25	3.25	2.95	2.65	2.39
334502CE	LWK3333	1	White	Water clear	T1 3/4	.197/5	0.34	0.98	0.10	3.5	5000	—	16	1.89	1.55	1.28	1.02
334772CE	UT18W3-86-UAF1-P22	1	White	Water clear	T1 3/4	.197/5	0.34	1.00	0.10	3.6	2900	475	25	2.35	2.19	1.97	1.77
183231CE	BVU-5C14WK4-B	1	White	Water clear	T1 3/4	.197/5	0.30	1.06	0.08	3.5	3000	—	10	2.95	2.65	2.39	2.15
142893CE	BVU-5E1WK4-B	1	White	Water clear	T1 3/4	.197/5	0.34	0.79	0.08	3.5	3700	—	15	3.75	3.41	2.90	2.49
320531CE	MCDL-5013UWC	1	White	Water clear	T1 3/4	.197/5	0.30	1.00	0.10	3.8	5000	—	15	1.09	.98	.76	.68
197641CE	BVT-529T3E	2	Yellow	Yellow transparent	Oval	.170"/.220"	0.29	1.04	0.08	2.3	7800	592	70	.69	.62	.55	.49



HLMP Series LEDs

* Prepackaged: order in increments of 10, 100 or 1000

Part No.	Product No.	Emitting Color	Lens/Feature Description	LED Size	Diameter inch/mm	Dimensions		Lead Spacing	Typical Vf @ If (mA)	Typical mcd @ mA	Wavelength nm	Pricing			
						A"	B"					1	10	100	1000
253278CE	HLMP-1301	Red	Diffused	T1	.119/3	0.19	1.00	0.10	1.9 @ 10	5.4 @ 10	635	*	\$.137	\$.112	\$.098
253366CE	HLMP-1321	Red	Tinted	T1	.119/3	0.19	1.00	0.10	1.9 @ 10	30 @ 10	635	*	.167	.13	.10
253551CE	HLMP-1340	Red	Clear	T1	.119/3	0.19	1.00	0.10	1.9 @ 20	55 @ 10	635	*	.122	.105	.076
253690CE	HLMP-1700	Red	Diffused	T1	.119/3	0.19	1.00	0.10	1.7 @ 2	2.1 @ 2	635	*	.132	.105	.086
253711CE	HLMP-K105	Red	Clear	T1	.119/3	0.19	1.00	0.10	2.2 @ 20	65 @ 20	645	*	.169	.152	.113
253729CE	HLMP-K150	Red	Diffused	T1	.119/3	0.19	1.00	0.10	1.8 @ 1	2.0 @ 1	645	*	.216	.171	.097
253631CE	HLMP-1503	Green	Diffused	T1	.119/3	0.19	1.00	0.10	2.1 @ 10	1.0 @ 10	565	*	.103	.076	.061
253649CE	HLMP-1521	Green	Tinted	T1	.119/3	0.19	1.00	0.10	2.7 @ 10	6.7 @ 10	565	*	.216	.171	.095
253657CE	HLMP-1523	Green	Diffused	T1	.119/3	0.19	1.00	0.10	2.1 @ 10	7.0 @ 10	565	.32	.244	.171	.095
253665CE	HLMP-1540	Green	Clear	T1	.119/3	0.19	1.00	0.10	45 @ 20	2.2 @ 20	565	.24	.207	.174	.139
253681CE	HLMP-1790	Green	Diffused	T1	.119/3	0.19	1.00	0.10	2.2 @ 2	2.3 @ 2	565	*	.132	.105	.099
253673CE	HLMP-1719	Yellow	Diffused	T1	.119/3	0.19	1.00	0.10	2.5 @ 2	2.1 @ 2	583	*	.132	.105	.086
253614CE	HLMP-1401	Yellow	Diffused	T1	.119/3	0.19	1.00	0.10	2.0 @ 10	2.2 @ 10	583	*	.137	.112	.098
253622CE	HLMP-1440	Yellow	Clear	T1	.119/3	0.19	1.00	0.10	2.1 @ 20	45 @ 20	583	*	.122	.105	.076
253745CE	HLMP-3300	Red	Diffused	T1 3/4	.197/5	0.36	1.00	0.10	2.2 @ 10	3.5 @ 10	635	.33	.263	.188	.113
253753CE	HLMP-3301	Red	Diffused	T1 3/4	.197/5	0.36	1.00	0.10	2.4 @ 10	5.4 @ 10	635	*	.16	.143	.095
253817CE	HLMP-4700	Red	Diffused	T1 3/4	.197/5	0.36	1.00	0.10	1.7 @ 2	2.3 @ 2	626	.31	.244	.171	.095
11797CE	QLMP-D141*	Red	Water clear	T1 3/4	.197/5	0.29	1.05	0.07	2.0 @ 20	350 @ 20	660	*	.158	.112	.073
253868CE	HLMP-D401	Orange Red	Diffused	T1 3/4	.197/5	0.36	1.00	0.10	2.4 @ 10	5.4 @ 10	600	*	.14	.127	.126
203553CE	HLMP-4100	Orange Red	Water clear	T1 3/4	.197/5	0.33	1.07	0.08	2.1 @ 20	600 @ 20	615	.97	.87	.78	.70
253770CE	HLMP-3507	Green	Diffused	T1 3/4	.197/5	0.36	1.00	0.10	2.1 @ 10	4.2 @ 10	565	*	.169	.143	.101
253809CE	HLMP-3950	Green	Clear	T1 3/4	.197/5	0.36	0.90	0.10	1.5 @ 20	265 @ 20	565	*	.244	.171	.095
253833CE	HLMP-4740	Green	Diffused	T1 3/4	.197/5	0.36	1.00	0.10	2.2 @ 2	2.3 @ 2	565	*	.244	.171	.124
253761CE	HLMP-3401	Yellow	Diffused	T1 3/4	.197/5	0.36	1.00	0.10	2.0 @ 10	5.7 @ 10	583	.29	.244	.171	.095
253796CE	HLMP-3850	Yellow	Clear	T1 3/4	.197/5	0.36	0.90	0.10	2.1 @ 20	140 @ 20	583	*	.244	.171	.098
253825CE	HLMP-4719	Yellow	Diffused	T1 3/4	.197/5	0.36	1.00	0.10	2.5 @ 2	2.1 @ 2	585	*	.226	.171	.096

* 10 pcs. in LEDs & LED Mounting Hardware cabinet kit, pg 58

Mounting Hardware listed on pages 56-58

LEDTECH Standard and High-Output LEDs

• Typical DC forward current 20mA

Quantity SAVE

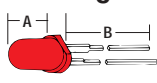
Ledtech is a QS9000 and
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Fig. 1

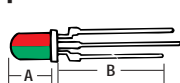


Fig. 2

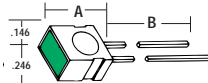


Fig. 3

152805CE

151415CE

* Prepackaged: order in
increments of 10, 100 or 1000

Part Number	Product Number	Fig.	Emitting Color	Lens/Feature Description	LED Size	Diameter (in./mm)	Dimensions		Lead Spacing	Typical Vf @ If (mA)	Typical mcd @ mA	Wavelength nm	Pricing			
							A"	B"					1	10	100	1000
156953CE	LT0373-41	1	Red Super Bright	Water clear	T1	.119/3	0.21	1.07	0.08	1.7 @ 20	600 @ 20	660	\$.24	\$.22	\$.17	\$.14
156945CE	LT0362-25-D61	2	Red/Green	White diff. bi-color tri-state	T1	.119/3	0.16	0.87	0.08	2.1 @ 20	2.7/13.3 @ 20	700/567	.29	.25	.19	.15
152750CE	LT0344R-41	1	Orange Red	Red clear	T1	.119/3	0.20	0.89	0.10	2.1 @ 20	52.9 @ 10	635	*	.19	.16	.12
152784CE	LT0341R-41	1	Orange Red	Red diffused	T1	.119/3	0.20	0.89	0.10	2.1 @ 20	15.5 @ 10	635	*	.17	.15	.12
152768CE	LT0324-41	1	Green	Green clear	T1	.119/3	0.20	0.89	0.10	2.1 @ 20	45 @ 20	567	*	.077	.059	.057
156929CE	LT0321-41-HE	1	Green	Green diffused	T1	.118/3	0.16	0.88	0.10	2.1 @ 20	32 @ 20	567	*	.18	.11	.10
156937CE	LT0331-41	1	Yellow	Yellow diffused	T1	.119/3	0.20	0.95	0.10	2.1 @ 20	11 @ 20	585	*	.14	.10	.07
136493CE	LT0333-41*	1	Yellow	Water clear	T1	.119/3	0.20	0.95	0.10	2.3 @ 20	38 @ 20	589	*	.19	.11	.09
215597CE	LT2K33-81-UC9T	1	Yellow	Water clear	T1 3/4	.197/5	0.31	0.89	0.10	2.2 @ 20	5000 @ 20	592	.59	.55	.49	.45
261622CE	LT1873-81-UR-P22	1	Red	Water clear	T1 3/4	.197/5	0.34	0.89	0.10	1.9 @ 20	1200 @ 20	660	.21	.20	.19	.15
242843CE	LT1811-81	1	Red	Red diffused	T1 3/4	.197/5	0.30	0.88	0.10	2.1 @ 20	4.1 @ 20	700	*	.12	.10	.06
152805CE	LT1873-81-UR	1	Red Ultra Bright	Water clear	T1 3/4	.197/5	0.34	0.89	0.10	1.9 @ 20	2000 @ 20	660	.29	.25	.19	.15
153138CE	LT2KJ3-UR-S14	1	Orange	Water clear	T1 3/4	.197/5	0.36	0.90	0.10	2.1 @ 20	2500 @ 20	621	.49	.44	.39	.35
302033CE	LT1814-81	1	Orange	Red diffused	T1 3/4	.197/5	0.34	0.88	0.10	2.1 @ 20	23.1 @ 20	635	*	.105	.071	.054
152856CE	LT1841R-81	1	Orange Red	Red diffused	T1 3/4	.197/5	0.34	0.89	0.10	2.1 @ 20	23 @ 20	635	*	.17	.15	.13
156961CE	LT1823-81-HE	1	Green	Water clear	T1 3/4	.197/5	0.34	0.87	0.10	2.1 @ 20	500 @ 20	567	*	.17	.15	.12
152821CE	LT1821-81-HE	1	Green	Green diffused	T1 3/4	.197/5	0.34	0.89	0.10	2.1 @ 20	96 @ 20	567	*	.16	.12	.09
175687CE	LT0524-81	1	Green	Green transparent	T1 3/4	.197/5	0.24	1.07	0.07	2.1 @ 20	44 @ 20	567	*	.16	.12	.09
152792CE	LT1833-81-M1	1	Ylw Super Bright	Water clear	T1 3/4	.197/5	0.34	0.89	0.10	2.1 @ 20	1040 @ 20	593	.26	.24	.19	.14
152830CE	LT1831-81-UR	1	Ylw Ultra Bright	Yellow diffused	T1 3/4	.197/5	0.34	0.89	0.10	2.0 @ 20	424 @ 20	593	.26	.24	.20	.14
34850CE	LT7341R-81†	3	Orange Red	Red diffused rectangular	3.5 x 6	—	0.27	0.85	0.07	2.0 @ 20	5.2 @ 20	635	.29	.242	.196	.152
White Diffused Backlight																
151415CE	LT1F24-A2-S1	—	Green	Backlight, diffused	2.05"L x 0.78"H x 0.09"T	8-pin		4.2 @ 20	140 @ 20	567	\$2.95	\$2.66	\$2.12	\$1.59		
302535CE	LT1F24-A2-S8	—	Green	Backlight, diffused	1.56"L x 0.98"H x 0.15"T	8-pin		4.2 @ 20	24.8 @ 20	567	2.95	2.65	2.39	1.79		

* 10 pcs. in LEDs & LED Mounting Hardware cabinet kit, below † For Mounting Hardware, below

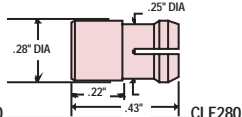
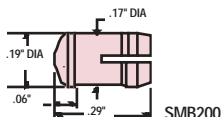
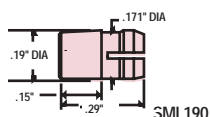
LED Cabinet Kit and LED Mounting Hardware



T1 3/4 Cliplite® LED Lens Mount

NEW

Standard and low profile, provide 180° viewing angle. Colors: red, green, amber, yellow and clear. Hole size for T1, 0.171", on 0.250" centers. Panel thickness T1: SML190, 0.031-0.062"; SMB200, 0.062-0.125". Hole size for T1 & T1-3/4, 0.250" on 0.375" centers. Panel thickness, CLF280, 0.062-0.125". CLB300, 0.031-0.0250".



Part No.	Type	Size	Color	1	10	100	1000
417818CE	SML190RTP	T1	Red	\$.26	\$.226	\$.166	\$.14
417826CE	SML190ATP	T1	Amber	.26	.226	.166	.14
417834CE	SML190GTP	T1	Green	.34	.30	.273	.20
417842CE	SML190YTP	T1	Yellow	.26	.226	.162	.14
417851CE	SML190CTP	T1	Clear	.26	.226	.166	.14
417869CE	SMB200RTP	T1 3/4	Red	.26	.226	.166	.14
417877CE	SMB200ATP	T1 3/4	Amber	.26	.226	.167	.14
417885CE	SMB200GTP	T1 3/4	Green	.26	.226	.167	.14
417893CE	SMB200YTP	T1 3/4	Yellow	.26	.226	.166	.14
417906CE	SMB200CTP	T1 3/4	Clear	.26	.226	.167	.14
29612CE	CLF280RTP	T1 3/4	Red	.28	.247	.219	.188
417914CE	CLF280ATP	T1 3/4	Amber	.28	.244	.185	.157
417922CE	CLF280GTP	T1 3/4	Green	.28	.244	.185	.157
417931CE	CLF280YTP	T1 3/4	Yellow	.28	.244	.181	.157
14277CE	CLF280CTP	T1 3/4	Clear	.25	.19	.16	.14
417949CE	CLB300RTP	T1 3/4	Red	.28	.244	.185	.157
417957CE	CLB300ATP	T1 3/4	Amber	.28	.244	.185	.157
417965CE	CLB300GTP	T1 3/4	Green	.28	.244	.185	.157
417973CE	CLB300YTP	T1 3/4	Yellow	.28	.244	.181	.157
124927CE	CLB300CTP	T1 3/4	Clear	.25	.19	.16	.14



Design Engineer's

139 Piece LED Hardware Assortment

Allows you to mount LEDs for different applications and designs. Eliminates soldering, shrink tubing and terminal crimping.

- 139 piece hardware kit for T1 and T1 3/4 LEDs
- Clear plastic case with dividers
- Size: 8.5"L x 4.5"W x 1.5"H • Weight: 0.4 lbs.



Includes: LED panel lenses and mounts	• Colors: clear, red, yellow, green and blue • Shapes: round, square • Retainers
Pre-wired solderless LED interconnection	• Varied lengths • Standard header pin connector termination • Crimp-type removable connector pins
LED PCB mounts, sockets and standoffs	• Vertical and horizontal mount • Various height LED standoffs • SMT-type connectors • Through-hole type connectors • Resistor-type connectors

Part No.	Description	Price
418731CE	Engineer's LED hardware kit	\$25.09

Order Any Time, Day or Night

Our friendly sales department will take your order 24x7x365 by phone, fax, web or email.



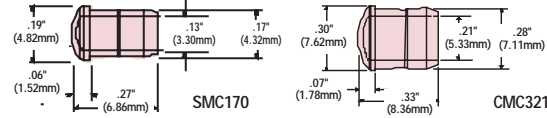
T1 & T1^{3/4} Cliplite® Panel Lens for PCB Mounted LEDs

T1 and T1-3/4 size low-profile panel lenses provide 180° viewing angle. Type SMC170 for T1 LEDs. Hole size: 0.171" on 0.250" centers. CMC321 for T1-3/4 LEDs. Hole size: 0.283" on 0.375" centers. Use retaining ring RNG165 for SMC170 and RNG268 for CMC321/CMS 322. RNG268: 0.36" Dia., 0.08" L.

- RNG165: 0.24" Dia., 0.50" L.
- RNG132: 0.24" Dia., 0.08" L.
- CMC285: 0.21" Dia., 0.285" L.
- SMC130: 0.14" Dia., 0.24" L.

* Prepackaged: order in increments of 10, 100 or 1000

NEW



Part No.	Type	Size	Color	1	10	100	1000
417691CE	SMC170RTP	T1	Red	\$.26	\$.226	\$.166	\$.14
417703CE	SMC170ATP	T1	Amber	.26	.226	.166	.14
417711CE	SMC170GTP	T1	Green	.26	.226	.166	.14
417720CE	SMC170YTP	T1	Yellow	.26	.226	.166	.14
143183CE	SMC170CTP	T1	Clear	.26	.226	.20	.14
417738CE	CMC321RTP	T1-3/4	Red	.28	.244	.185	.157
417746CE	CMC321ATP	T1-3/4	Amber	.28	.244	.185	.157
417754CE	CMC321GTP	T1-3/4	Green	.28	.244	.185	.157
417762CE	CMC321YTP	T1-3/4	Yellow	.28	.244	.185	.157
417771CE	CML325CTP	T1-3/4	Clear	.28	.254	.195	.164
143132CE	CMC321CTP	T1-3/4	Clear	.25	.22	.18	.14
417797CE	SMC130CTP	T1	Panel mount clip	*	.169	.127	.107
417800CE	CMC285CTP	T1-3/4	Panel mount clip	.27	.235	.166	.14
417631CE	RNG132	—	Ring for SMC130	*	.075	.059	.049
417789CE	RNG165	—	Ring for SMC285	*	.075	.059	.049
417640CE	RNG234	—	Ring for CMC321	*	.066	.059	.049

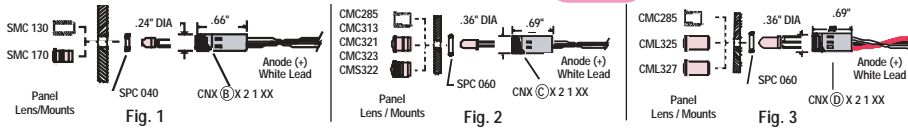
Conxrite LED Cable Interconnects with Threaded Lenses and Sockets



Designed to replace labor-intensive hard-wiring of panel-mounted LEDs to PCB.

3mm type CNXBE and CNXBX connector assemblies use SMC170 lens or SMC130 mount; 5mm type CNXCE and CNXCX assemblies use a CMC321 lens or CMC285 mount. Thin panels (0.032") use ring spacer type SPC040 for 3mm and type SPC060 for 5mm assemblies. CNXBE, CNXCE and CNXDF cables are supplied with panel and header connector. The BX, CX and DX cables are supplied with panel connector and bare wire leads. CNXV and H series locking headers provide positive locking between PCB and cable assembly.

NEW



Part No.	Type	Fig.	LED Type	Termination	Length	1	10	100	1000
417375CE	CNXBE2104	1	T1 (3mm) Bi-lead	2 Position Connector	4"	\$1.99	\$1.69	\$1.11	\$1.00
143087CE	CNXBE2108	1	T1 (3mm) Bi-lead	2 Position Connector	8"	1.25	1.13	1.05	.99
417383CE	CNXBE2112	1	T1 (3mm) Bi-lead	2 Position Connector	12"	2.15	1.81	1.20	1.08
417391CE	CNXBE2124	1	T1 (3mm) Bi-lead	2 Position Connector	24"	2.45	2.07	1.37	1.33
417404CE	CNXBX2104	1	T1 (3mm) Bi-lead	Stripped Leads	4"	1.21	1.03	.75	.68
417412CE	CNXBX2108	1	T1 (3mm) Bi-lead	Stripped Leads	8"	1.35	1.14	.75	.68
417421CE	CNXBX2112	1	T1 (3mm) Bi-lead	Stripped Leads	12"	1.49	1.26	.84	.76
417439CE	CNXBX2118	1	T1 (3mm) Bi-lead	Stripped Leads	18"	1.65	1.38	.92	.71
417447CE	CNXBX2124	1	T1 (3mm) Bi-lead	Stripped Leads	24"	1.79	1.52	1.00	.90
417455CE	CNXCE2104	2	T1-3/4 (5mm) Bi-lead	2 Position Connector	4"	1.99	1.69	1.11	1.00
143036CE	CNXCE2108	2	T1-3/4 (5mm) Bi-lead	2 Position Connector	8"	1.29	1.25	1.19	1.15
417463CE	CNXCE2112	2	T1-3/4 (5mm) Bi-lead	2 Position Connector	12"	2.15	1.81	1.20	1.08
143052CE	CNXCE2118	2	T1-3/4 (5mm) Bi-lead	2 Position Connector	18"	1.55	1.39	1.20	1.09
417471CE	CNXCE2124	2	T1-3/4 (5mm) Bi-lead	2 Position Connector	24"	2.45	2.07	1.37	1.23
417480CE	CNXCX2104	2	T1-3/4 (5mm) Bi-lead	Stripped Leads	4"	1.35	1.28	.75	.68
417498CE	CNXCX2108	2	T1-3/4 (5mm) Bi-lead	Stripped Leads	8"	1.35	1.14	.75	.69
417501CE	CNXCX2112	2	T1-3/4 (5mm) Bi-lead	Stripped Leads	12"	1.49	1.26	.84	.65
417519CE	CNXCX2118	2	T1-3/4 (5mm) Bi-lead	Stripped Leads	18"	1.65	1.38	.92	.83
417527CE	CNXCX2124	2	T1-3/4 (5mm) Bi-lead	Stripped Leads	24"	1.79	1.61	1.01	.90
417535CE	CNXDF2604	3	T1-3/4 (5mm) Tri-lead	3 Position Connector	4"	2.85	2.40	1.58	1.42
417543CE	CNXDF2608	3	T1-3/4 (5mm) Tri-lead	3 Position Connector	8"	2.85	2.40	1.58	1.42
417551CE	CNXDF2612	3	T1-3/4 (5mm) Tri-lead	3 Position Connector	12"	3.15	2.64	1.76	1.58
417560CE	CNXDF2618	3	T1-3/4 (5mm) Tri-lead	3 Position Connector	18"	3.39	2.85	1.89	1.70
417578CE	CNXDF2624	3	T1-3/4 (5mm) Tri-lead	3 Position Connector	24"	3.59	3.02	2.00	1.80
417586CE	CNXDX2604	3	T1-3/4 (5mm) Tri-lead	Stripped Leads	4"	1.85	1.55	1.02	.80
417594CE	CNXDX2608	3	T1-3/4 (5mm) Tri-lead	Stripped Leads	8"	1.85	1.52	1.02	.92
417607CE	CNXDX2612	3	T1-3/4 (5mm) Tri-lead	Stripped Leads	12"	2.15	1.81	1.20	1.08
417615CE	CNXDX2618	3	T1-3/4 (5mm) Tri-lead	Stripped Leads	18"	2.39	2.02	1.34	1.20
417623CE	CNXDX2624	3	T1-3/4 (5mm) Tri-lead	Stripped Leads	24"	2.59	2.19	1.44	1.30

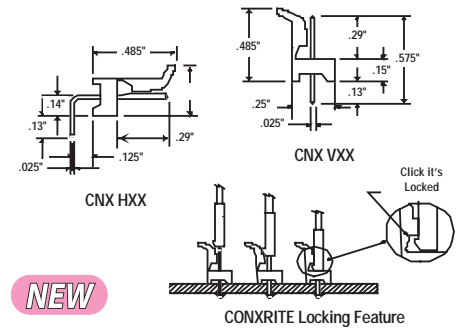
Color Code Legend
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Conxrite Locking Headers For Use With Cable Assemblies



CNXV and H series locking headers provide positive locking between PCB and cable assembly.

- Mounting P/N 417658CE: vertical 2-pin
- Mounting P/N 417666CE: vertical 3-pin
- Mounting P/N 417674CE: horizontal 2-pin
- Mounting P/N 417682CE: horizontal 3-pin



Part No.	Type	1	10	100	1000
417658CE	CNXV02NTP	\$.27	\$.251	\$.229	\$.163
417666CE	CNXV03NTP	.42	.376	.338	.304
417674CE	CNXH02NTP	.34	.332	.263	.219
417682CE	CNXH03NTP	.33	.297	.263	.219

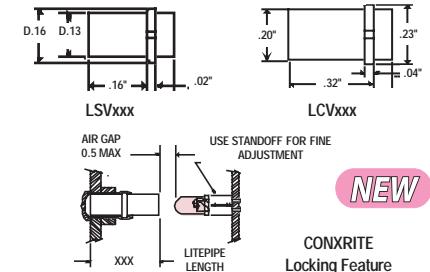
Litepipes For PCB-Mounted LEDs



Designed to transmit light from PCB mounted LED to panel display. Cliplite lenses provide the mounting for Litepipes and produce 180° of viewing angle.

Use SMB200 for LSV (3mm) litepipe and CLB300 for LCV (5mm) litepipe. For added security use retaining rings RNG190 (3mm) and RNG268 (5mm).

- Mounting color: clear



Part No.	Type	1	10	100	1000
417981CE	LSV020CTP	\$.28	\$.254	\$.224	\$.189
417990CE	LSV040CTP	.28	.254	.224	.189
418001CE	LSV060CTP	.28	.254	.224	.189
418010CE	LSV080CTP	.28	.254	.224	.189
418028CE	LSV100CTP	.28	.254	.224	.189
418036CE	LSV120CTP	.28	.254	.224	.189
418044CE	LCV036CTP	.28	.254	.224	.189
418052CE	LCV056CTP	.28	.254	.224	.189
418061CE	LCV076CTP	.28	.254	.224	.189
418079CE	LCV096CTP	.28	.254	.224	.189
418087CE	LCV116CTP	.28	.254	.224	.189
418095CE	LCV136CTP	.28	.254	.224	.189

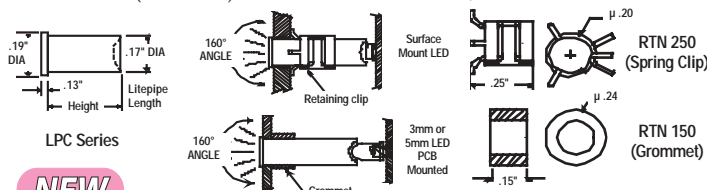
Jameco's Got The Docs

We offer free technical documents for most of the products we carry. Find them easily on the product specification pages at www.jameco.com.



Litepipes For Standard and Surface-Mount LEDs

Designed to produce 160° viewing angle of transmitted light from PCB mounted LEDs. Accommodates both 3mm and surface mount LEDs. Litepipes are able to display single color devices or mix multi-colored LEDs into a single color. Sizes from 0.200" (5.08mm) to 2.00" (50.80mm). Use RTN grommet for sizes 0.20" thru 0.50" and RTN spring clip for sizes 0.50" to 2.00" (50.80mm).



* Prepackaged: order in increments of 10, 100 or 1000

Part No.	Type	Mounting Height	1	10	100	1000
418108CE	LPC020CTP	0.200"	\$.35	\$.32	\$.244	\$.205
418116CE	LPC022CTP	0.220"	.35	.32	.244	.205
418124CE	LPC024CTP	0.240"	.35	.32	.244	.205
418132CE	LPC026CTP	0.260"	.35	.32	.244	.205
418141CE	LPC028CTP	0.280"	.35	.32	.244	.205
418159CE	LPC030CTP	0.300"	.35	.32	.244	.205
418167CE	LPC032CTP	0.320"	.35	.32	.244	.205
418175CE	LPC034CTP	0.340"	.35	.32	.244	.205
418183CE	LPC036CTP	0.360"	.35	.32	.244	.205
418191CE	LPC038CTP	0.380"	.35	.32	.244	.205
418204CE	LPC040CTP	0.400"	.35	.32	.244	.205
418212CE	LPC042CTP	0.420"	.35	.32	.244	.205
418221CE	LPC044CTP	0.440"	.35	.32	.244	.205
418239CE	LPC046CTP	0.460"	.35	.32	.244	.205
418247CE	LPC048CTP	0.480"	.35	.32	.244	.205
418255CE	LPC050CTP	0.500"	.35	.32	.244	.205
418263CE	LPC056CTP	0.56"	.35	.32	.244	.205
418280CE	LPC066CTP	0.66"	.35	.32	.244	.205
418301CE	LPC076CTP	0.76"	.35	.32	.244	.205
418327CE	LPC086CTP	0.86"	.35	.32	.244	.205
418271CE	LPC060CTP	0.600"	.35	.32	.244	.205
418298CE	LPC070CTP	0.700"	.35	.32	.244	.205
418319CE	LPC080CTP	0.800"	.35	.32	.244	.205
418335CE	LPC090CTP	0.900"	.35	.32	.244	.205
418343CE	LPC096CTP	0.960"	.35	.32	.244	.205
418351CE	LPC100CTP	1.00"	.40	.357	.263	.222
418360CE	LPC125CTP	1.25"	.40	.357	.263	.222
418378CE	LPC150CTP	1.50"	.40	.357	.263	.222
418386CE	LPC160CTP	1.60"	.40	.357	.263	.222
418394CE	LPC200CTP	2.00"	.40	.357	.263	.222
418407CE	RTN150	Grommet	*	.074	.059	.049
418415CE	RTN250	Spring clip	*	.093	.059	.052

LED Mounting Hardware

- P/N 95521CE: for use with P/N 94545CE and 34850CE, pg 53
- Color: black



Prepackaged: order in increments of 10, 100 or 1000

Part No.	Cross Ref. No.	Description	Mounting Hole Dia.	Panel Thickness	Pricing		
					10	100	1000
95513CE	LMH100	T1 snap-in	.185"	Up to .070"	\$.08	\$.07	\$.04
23077CE	LMH200	T1 1/2 ring & clip	.257"	Up to .125"	.15	.135	.12
95521CE	LMH250	Rect. snap-in	.306" x .202"	Up to .092"	.20	.15	.127
379815CE	—	10mm snap-in	.539"	Up to .125"	.43	.35	.32

Electronic Pocket Reference

Third Edition McGraw-Hill Publishing

A pocket reference manual that provides definitions, passive component equations and color coding, parameters of standard semi-conductors, linear circuits, filters, power supply and regulation, electronic measurement and mathematical tables and formulas. (529 pages, 2000)

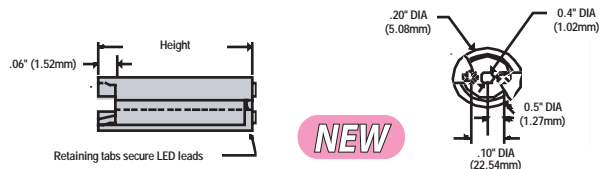
- Size: 4.0" x 6.0"
- Weight: 0.9 lbs.

Part No.	Description	Price
174481CE	Electronics Pocket Reference	\$26.95



PCB Standoffs For 2- and 3-Lead Components

Designed for PCB mounting of multi-lead devices (e.g. LEDs, IR emitter/detector lamps, resistors, capacitors and diodes). Provide lead separation, retention and lateral stability, and height control. Standoffs vary in height from 0.12" to 1.00". Standoffs are UL94V0 material.



NEW

* Prepackaged: order in increments of 10, 100 or 1000

Part No.	Type	Mounting Height	1	10	100	1000
418423CE	STD120BLK	0.120"	*	\$.093	\$.068	\$.058
418431CE	STD140BLK	0.140"	*	.093	.068	.058
418440CE	STD160BLK	0.160"	*	.093	.068	.058
418458CE	STD180BLK	0.180"	*	.093	.068	.058
418466CE	STD200BLK	0.200"	*	.093	.068	.058
418474CE	STD220BLK	0.220"	*	.093	.068	.058
418482CE	STD240BLK	0.240"	*	.093	.068	.058
418491CE	STD250BLK	0.250"	*	.089	.068	.058
418503CE	STD260BLK	0.260"	*	.093	.068	.058
418511CE	STD280BLK	0.280"	*	.093	.068	.058
418520CE	STD300BLK	0.300"	*	.093	.068	.058
418538CE	STD320BLK	0.320"	*	.093	.068	.058
418546CE	STD340BLK	0.340"	*	.093	.068	.058
418554CE	STD360BLK	0.360"	*	.093	.068	.058
418562CE	STD380BLK	0.380"	*	.093	.068	.058
418571CE	STD400BLK	0.400"	*	.093	.068	.058
418589CE	STD420BLK	0.420"	*	.093	.068	.058
418597CE	STD440BLK	0.440"	*	.093	.068	.058
418600CE	STD460BLK	0.460"	*	.093	.068	.058
418618CE	STD480BLK	0.480"	*	.093	.068	.058
418626CE	STD500BLK	0.500"	*	.093	.068	.058
418634CE	STD550BLK	0.550"	*	.093	.068	.058
418642CE	STD600BLK	0.600"	*	.093	.068	.058
418651CE	STD650BLK	0.650"	*	.093	.068	.058
418669CE	STD700BLK	0.700"	*	.093	.068	.058
418677CE	STD750BLK	0.750"	*	.093	.068	.058
418685CE	STD800BLK	0.800"	*	.093	.068	.058
418693CE	STD850BLK	0.850"	*	.093	.068	.058
418706CE	STD900BLK	0.900"	*	.093	.068	.058
418714CE	STD950BLK	0.950"	*	.093	.068	.058
418722CE	STD1.0BLK	1.000"	*	.093	.068	.058

LEDs & LED Mounting Hardware Kit

Includes:

- 20-drawer component cabinet (319599CE), 20 clear plastic drawers (319601CE), 20 clear dividers (319610CE), pg 273 and labels
- 10 ea. standard-output LEDs (34657CE, 114673CE, 114681CE, 34606CE, 175695CE, 34825CE, 34690CE, 11359CE, 34761CE, 34711CE, 104248CE, 104256CE, 34673CE), pg 53 and 136493CE, pg 56
- 10 ea. HLMP series LEDs (11797CE), pg 55
- 10 ea. LED lens mount (14277CE), pg 56
- 100 ea. LEDs (94529CE, 135597CE), pg 54
- 100 ea. LED mounting hardware (95513CE, 23077CE), pg 58



SAVE \$25

Part No.	Description	Wt. (lbs.)	1	10
84996CE	560 pcs. kit	5.0	\$66.95	\$60.25

We're Listening to Your Requests!

Email us 24/7 at NewProducts@Jameco.com with suggestions for products you'd like to see in future catalogs.



7-Segment LED Displays

The general advantages of LED displays compared to incandescent types include:

- Lower power consumption
- Longer lifetime (average of more than 300,000 hours)
- Compact size suitable for instrumentation and graphic representations

Soldering:

- Soldering bath: not more than 5 seconds @ 260°C
- Soldering iron: not more than 3 seconds @ 300°C under 30W



Single Digit RHDP



Single Digit RHDP/LHDP



2-Digit RHDP



3-Digit RHDP



4x7 Hex Character



Dot Matrix



202526CE pg 60

5"

Optos

Part No.	Cross Ref. No.	Character Height	Illuminated Color	Bus Polarity*	Pins/Leads	Typical Vf @ If (mA)	Typical mcd @ mA	Wavelength nm	Decimal Point #	Pricing			
										1	10	100	1000
320469CE	UA3031-16-EWRN	.300"	Yellow	CA	11	3.0 @ 20	2.3 @ 10	585	LHDP/RHDP	\$.71	\$.64	\$.58	\$.87
334983CE	UA3051-12	.300"	Red	CA	10	2.1 @ 20	0.8 @ 10	700	RHDP	.78	.69	.61	.478
395639CE	UA3051-16EWRN	.300"	Red	CA	11	3.0 @ 20	0.8 @ 10	700	LHDP/RHDP	1.09	.98	.96	.81
334799CE	UC3051-11	.300"	Red	CC	10	2.1 @ 20	0.8 @ 10	700	RHDP	.78	.76	.61	.478
335003CE	UA3041R-12	.300"	Hi-eff Red	CA	10	2.1 @ 20	3.3 @ 10	635	RHDP	.68	.60	.58	.49
334801CE	UC3041R-11	.300"	Hi-eff Red	CC	10	2.1 @ 20	3.3 @ 10	635	RHDP	.68	.60	.54	.49
334810CE	UC3041R-20	.300"	Hi-eff Red	CC	10	2.1 @ 20	3.3 @ 10	635	LHDP/RHDP	.86	.77	.57	.49
335011CE	UA3041-12	.300"	Orange	CA	10	2.1 @ 20	3.3 @ 10	635	RHDP	.68	.60	.57	.42
335257CE	UC3671-11-M1-EWAK	.360"	Super Bright Red	CA	10	1.7 @ 20	6.0 @ 10	643	RHDP	1.27	1.12	1.06	.75
334836CE	UA4071-11-UR EWAK	.400"	Red	CA	10	1.9 @ 20	25.6 @ 10	660	RHDP	.88	.79	.62	.56
335020CE	UA4051-11	.400"	Red	CA	10	2.1 @ 20	0.8 @ 10	700	RHDP	.69	.62	.432	.41
334844CE	UC4041R-11	.400"	Hi-eff Red	CC	10	2.1 @ 20	3.3 @ 10	635	RHDP	.77	.73	.56	.44
334828CE	UC4041-11	.400"	Orange	CC	10	2.1 @ 20	3.3 @ 10	635	RHDP	.78	.74	.56	.44
335046CE	UA4041-11	.400"	Orange	CA	10	2.1 @ 20	3.3 @ 10	635	RHDP	.78	.74	.56	.44
335054CE	UN4043-13 EWRS	.400"	Orange	3-digit CA	12	2.1 @ 20	3.3 @ 10	635	RHDP	2.25	1.96	1.88	1.37
334852CE	UC4031-11	.400"	Yellow	CC	10	2.1 @ 20	2.3 @ 10	585	RHDP	.80	.76	.57	.452
335038CE	UA4021-11	.400"	Green	CA	10	2.1 @ 20	2.9 @ 10	567	RHDP	.80	.75	.57	.452
335214CE	UC5442-11 EWRS†	.540"	Orange	2-digit CC	18	2.1 @ 20	3.3 @ 10	635	RHDP	2.95	2.58	2.48	1.81
335222CE	UA5422-11 EWRS†	.540"	Green	2-digit CA	18	2.1 @ 20	2.9 @ 10	567	RHDP	2.65	2.34	2.24	1.64
334887CE	UC5651-11	.560"	Red	CC	10	2.1 @ 20	0.8 @ 10	700	RHDP	1.04	.99	.87	.70
334932CE	UC5652-11	.560"	Red	2-digit CC	18	2.1 @ 20	0.8 @ 10	700	RHDP	.95	.90	.68	.65
334959CE	UA5652-11	.560"	Red	2-digit CA	18	2.1 @ 20	0.8 @ 10	700	RHDP	1.39	1.32	.98	.94
335089CE	UA5651-11	.560"	Red	CA	10	2.1 @ 20	0.8 @ 10	700	RHDP	1.04	.99	.87	.70
335273CE	UA5654-11 EWRS	.560"	Red	4-digit CA	36	2.1 @ 20	0.8 @ 10	700	RHDP	2.25	1.75	1.52	1.26
334895CE	UC5641R-11	.560"	Hi-eff Red	CC	10	2.1 @ 20	3.3 @ 10	635	RHDP	.76	.74	.51	.401
334941CE	UC5642R-11	.560"	Hi-eff Red	2-digit CC	18	2.1 @ 20	3.3 @ 10	635	RHDP	1.18	.95	.80	.64
334975CE	UA5642R-11	.560"	Hi-eff Red	2-digit CA	18	2.1 @ 20	3.3 @ 10	635	RHDP	.85	.84	.63	.60
335100CE	UA5641R-11	.560"	Hi-eff Red	CA	10	2.1 @ 20	3.3 @ 10	635	RHDP	.75	.67	.50	.394
335311CE	UA5641-11	.560"	Orange	CA	10	2.1 @ 20	3.3 @ 10	635	RHDP	.60	.50	.40	.38
334879CE	UC5641-11	.560"	Orange	CC	10	2.1 @ 20	3.3 @ 10	635	RHDP	.65	.60	.416	.401
335151CE	UA5642-11	.560"	Orange	2-digit CA	18	2.1 @ 20	3.3 @ 10	635	RHDP	.88	.81	.64	.58
334924CE	UC5642-11	.560"	Orange	2-digit CC	18	2.1 @ 20	3.3 @ 10	635	RHDP	1.03	.89	.61	.58
335185CE	UM5644R-11 RRRS	.560"	Orange	4-digit CC	12	2.1 @ 20	3.3 @ 10	635	RHDP	2.59	2.34	2.24	1.64
335126CE	UA5621-11	.560"	Green	CA	10	2.1 @ 20	2.9 @ 10	562	RHDP	.75	.61	.40	.38
334861CE	UC5621-11	.560"	Green	CC	10	2.1 @ 20	2.9 @ 10	567	RHDP	.81	.80	.546	.423
334967CE	UA5622-11	.560"	Green	2-digit CA	18	2.1 @ 20	2.9 @ 10	567	RHDP	1.65	1.45	1.20	.96
334916CE	UC5622-11	.560"	Green	2-digit CC	18	2.1 @ 20	2.9 @ 10	567	RHDP	1.04	.99	.74	.70
335169CE	UC5624-11 EWRS	.560"	Green	4-digit CC	36	2.1 @ 20	2.9 @ 10	567	RHDP	2.59	2.46	1.67	1.51
335177CE	UA5624-11 EWRS	.560"	Green	4-digit CA	36	2.1 @ 20	2.9 @ 10	567	RHDP	2.59	2.25	2.05	1.69
335193CE	UM5624-11 EWRS	.560"	Green	4-digit CC	12	2.1 @ 20	2.9 @ 10	567	RHDP	2.59	2.34	2.24	1.64
334908CE	UC8041-21 EWRS	.800"	Orange	CC	13	2.1 @ 20	3.8 @ 10	635	RHDP	1.29	1.05	.88	.70
335281CE	UJ1141-21 EWRN	1.2"	Orange	5 x 7 CC/AR	14	2.1 @ 20	4.6 @ 10	635	—	5.49	4.95	4.45	3.94
335290CE	UJ2041-22 EWRN	2.0"	Orange	5 x 7 CC/AR	14	2.1 @ 20	6.0 @ 10	630	—	3.65	3.26	3.14	2.73

Other Manufacturers — Great Deals

24731CE	LSD3021-11	.300"	Red	CA	11	1.9 @ 20	0.3 @ 20	697	RHDP	\$.87	\$.70	\$.50	\$.47
308187CE	LC3041R-RRRN	.300"	Hi-eff Red	CC	10	2.1 @ 20	3.3 @ 10	635	LHDP/RHDP	.73	.64	.59	.56
24740CE	LSD3221-11	.300"	Red	CA	11	2.1 @ 20	2.5 @ 20	697	LHDP	.79	.72	.64	.58
24782CE	LSD3211-11	.300"	Red	CC	10	2.1 @ 20	2.5 @ 20	697	RHDP	.89	.75	.65	.49
308179CE	LC3951-11EWAK	.390"	Red	CC	10	2.1 @ 20	0.6 @ 10	700	RHDP	.79	.73	.68	.67
17187CE	LSD5051-11	.500"	Red	CC	10	2.1 @ 20	0.9 @ 20	697	RHDP	.89	.80	.72	.65
17208CE	LSD5061-11	.500"	Red	CA	10	2.1 @ 20	0.9 @ 20	697	RHDP	.89	.75	.65	.49
104213CE	LSD5124-10	.560"	Orange Red	CA	10	2.0 @ 20	2.4 @ 20	635	RHDP	.89	.80	.64	.48

* CA-Common Anode/CC-Common Cathode/AR-Anode Row # LHDP-Left Hand Decimal Point / RHDP-Right Hand Decimal Point † 14 segment

7-Segment LED Displays (Continued)

Quantity SAVE

See pg 59 for package

LEDTECH ROHM Other Manufacturers — Great Deals LITEON TEAMA INSTRUMENTS Panasonic											Pricing			
Part No.	Cross Ref. No.	Character Height	Illuminated Color	Bus Polarity*	Pins/ Leads	Typical Vf @ If (mA)	Typical mcd @ mA	Wavelength nm	Decimal Point #		1	10	100	1000
308224CE	LM5643R-11RRRN	.560"	Orange	3-digit CC	11	2.1 @ 20	3.3 @ 10	635	RHDP		\$2.25	\$2.05	\$1.79	\$1.69
308232CE	LM5644R-11RRRN	.560"	Orange	4-digit CC	12	2.1 @ 20	3.3 @ 10	635	RHDP		2.75	2.45	2.19	2.09
199531CE	LSD5111-11	.560"	Red	CC	10	2.1 @ 20	0.8 @ 20	697	RHDP		1.55	1.39	1.11	.83
24715CE	LDD5121-20	.560"	Red	2-digit CA	18	2.1 @ 20	0.8 @ 20	697	RHDP		1.25	1.05	.89	.75
24723CE	LDD5111-11	.560"	Red	2-digit CC	18	2.1 @ 20	0.8 @ 20	697	RHDP		1.25	1.05	.89	.75
200379CE	LB602VAGI	.560"	Red	2-digit CA	18	2.0 @ 10	16 @ 10	650	RHDP		1.99	1.34	1.08	.80
24694CE	LDD5124	.560"	Orange Red	2-digit CA	18	2.0 @ 20	2.4 @ 20	635	RHDP		1.69	1.52	.96	.73
24707CE	LDD5114-20	.560"	Orange Red	2-digit CC	18	2.0 @ 20	2.4 @ 20	635	RHDP		1.59	1.43	.98	.69
200539CE	ELD556YWA	.560"	Yellow	2-digit CA	18	2.0 @ 20	1.9 @ 10	590	RHDP		1.89	1.44	1.25	.94
308216CE	LA5622-11EWRN	.560"	Green	2-digit CA	18	2.1 @ 20	2.9 @ 10	567	RHDP		.87	.65	.56	.53
225963CE	KW3-562A2B	.560"	Green	3-digit CA	28	2.2 @ 20	15 @ 20	568	RHDP		2.39	2.15	1.95	1.25
199582CE	LC56311	.560"	Yellow	CC	8	2.1 @ 20	5.2 @ 20	589	RHDP		1.49	1.25	1.09	.79
18737CE	LSD816-11	.800"	Orange Red	CA	13	1.6 @ 20	0.9 @ 20	655	RHDP		1.49	1.35	1.19	.99
308259CE	LA8071-11-MIEWRW	.800"	Red	CA	13	1.7 @ 20	8.9 @ 10	660	LHDP/RHDP		1.39	1.25	1.13	1.07
18753CE	LSD8151-10	.800"	Red	CC	13	2.1 @ 20	1.0 @ 20	697	RHDP		1.49	1.34	1.07	.80
176559CE	C8021-1	.800"	Green	CC	13	2.0 @ 20	0.9 @ 20	568	RHDP		.49	.44	.35	.26
308161CE	LA2541-24EWRN	1.0"	Orange	CA	10	4.2 @ 20	5.2 @ 10	635	RHDP		2.89	2.65	2.29	2.15
97172CE	LSD10061-10	1.0"	Red	CA	10	2.1 @ 20	2.0 @ 20	697	RHDP		1.39	1.25	1.12	.99
97199CE	LSD23265-10	2.24"	Red	CA	10	1.7 @ 20	21 @ 20	660	RHDP		5.75	5.19	4.69	4.19
97201CE	LSD23255-10	2.24"	Red	CC	10	1.7 @ 20	21 @ 20	660	RHDP		4.49	3.95	3.25	2.95
308208CE	LA2321-42EWRN	2.24"	Green	CA	10	4.2 @ 40	2.7 @ 10	567	RHDP		8.45	8.15	6.59	5.25
202518CE	LSD30165-20	3.0"	Orange Red	CA	10	8 @ 20	4.5 @ 10	635	RHDP		7.39	6.65	5.32	3.99
202542CE	LSD30155-20	3.0"	Orange Red	CC	10	8 @ 20	4.5 @ 10	635	RHDP		5.49	4.95	4.45	4.05
105591CE	LSD40054-20†	4.0"	Orange Red	CC	10	2.0 @ 20	18 @ 20	635	RHDP		9.49	8.29	7.49	6.49
202500CE	LSD40064-20	4.0"	Orange Red	CA	10	2.0 @ 20	18 @ 10	635	RHDP		10.49	9.49	8.59	7.79
202526CE	LSD50065-20	5.0"	Red	CA	10	17 @ 20	45 @ 10	660	RHDP		30.19	24.15	21.75	19.55
202534CE	LSD50055-20	5.0"	Red	CC	10	17 @ 20	45 @ 10	660	RHDP		17.95	14.35	12.95	11.65

* CA-Common Anode/CC-Common Cathode # LHDP-Left Hand Decimal Point / RHDP-Right Hand Decimal Point † 5 diodes per segment

Dot Matrix and Bargraph LED Displays

NEW

Lower \$\$\$

Part No.	Cross Ref. No.	Jameco Socket Number	Character Height	Illuminated Color	Bus Polarity*	Pins/ Leads	Typical Vf @ If (mA)	Typical mcd @ mA	Wavelength nm	Decimal Point #	Pricing			
											1	10	100	1000
173833CE	HP5082-7300	—	.290"	Red	4x7 Numeric	8	5.0 @ 170	.03 @ 20	660	RHDP	\$4.95	\$4.46	\$4.01	\$3.34
32951CE	TIL311	37161CE	.300"	Red	4x7 Hex character	11	5.0 @ 5	0.1 @ 5	660	—	16.95	14.35	12.20	11.45
308152CE	LA5041R-11RRRN	—	.500"	Orange	Alphanumeric	18	2.1 @ 20	7.4 @ 10	635	RHDP	1.69	1.49	.89	.85
118906CE	LTP747R	37161CE	.680"	Orange Red	5 x 7 AC/CR	12	1.7 @ 20	0.2 @ 20	655	—	2.25	2.05	1.65	1.25
218843CE	CSM57041T-11	—	.700"	Red	5 x 7 CC/CR	12	1.8 @ 20	8 @ 20	660	—	1.95	1.76	1.40	1.05
308144CE	LJ5763-M1FEWRN	—	1.10"	Red/Green	5 x 7 CC/AR	20	1.7/2.1 @ 20	10.8/20.0 @ 10	660/567	—	4.05	3.45	3.25	3.09
206560CE	LTP2157AG	—	2.0"	Green	5 x 7 CC/AR	14	3.7 @ 80	4.8 @ 80	565	—	2.59	2.35	2.13	1.94
183265CE	LMD5821ASR-20	—	2.3"	Red	5 x 8 CC/AR	14	1.7 @ 20	12 @ 20	660	—	4.95	4.49	3.95	3.49
308110CE	LJ4071-22 EWRN	—	3.60"	Red; gray face	5 x 7 CC/AR	14	3.4 @ 20	30.4 @ 10	660	—	\$5.45 4.39	4.06	3.59	3.23
308128CE	LJ4071-22 BRRN	—	3.60"	Red; black face	5 x 7 CC/AR	14	3.4 @ 20	30.4 @ 10	660	—	\$5.45 4.39	4.06	3.59	3.23
308136CE	LJ4071-22 BWRN	—	3.60"	Red; red face	5 x 7 CC/AR	14	3.4 @ 20	30.4 @ 10	660	—	\$20.65 4.39	4.06	3.59	3.23
334511CE	UL10000-E-EWAK†	—	—	Green	10-SEG.	4	2.1 @ 20	1.4 @ 10	567	—	1.22	.99	.81	.65
334529CE	UL10000-HR-RRAK†	—	—	Red	10-SEG.	4	2.1 @ 20	1.6 @ 10	635	—	1.18	.95	.78	.63
334537CE	UL10000-Y-EWAK†	—	—	Yellow	10-SEG.	4	2.1 @ 20	1.1 @ 10	585	—	1.15	.93	.77	.61

* CA-Common Anode/CC-Common Cathode/AC-Anode Column/CR-Cathode Row/AR-Anode Row

LHDP-Left Hand Decimal Point / RHDP-Right Hand Decimal Point † Bargraph

2-50mA LED Tester

This pocket-size LED tester makes it easy to check functionality, color, brightness and uniformity. Plug any leaded LED into one of 12 positions on the socket strip to test at current ratings from 2-50mA. The seven middle positions on the strips are set at 10mA allowing comparison of LEDs in those spaces.

Requires: 9V battery (recommend P/N 198791CE, pg 206)

• Size: 3.2" L x 2.4" W x 0.9" H



Part No.	Description	Price
354968CE	LED tester	\$8.55

JAMECO BenchPro

2-150mA LED Tester

Pocket-size LED tester makes it easy to check functionality, color, brightness and uniformity. Plug any leaded LED into one of the 13 positions on the tester at current ratings ranging from 2-30mA. Another 13 position strip ranging from 20mA to 150mA to test other types of LEDs with ACA (anode-cathode-anode) or CAC (cathode-anode-cathode) pin configuration. Includes 9V battery.

• Size: 3.1" L x 2.2" W x 0.9" H



Part No.	Description	Price
355805CE	LED tester	\$8.95

Practical Electronics Book for Inventors

McGraw-Hill Publishing

Provides information needed for practical use in a format you can understand. With hand drawn illustrations, this learn-as-you-go guide shows you what a particular device does, looks like and compares it with other similar devices. (604 pages, 2000)

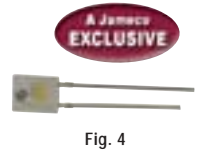
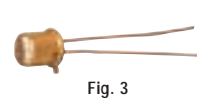
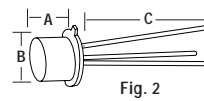
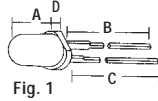
• Size: 8.4" x 11" • Weight: 2.8 lbs.



Part No.	Description	Price
174529CE	Practical Electronics Book for Inventors	\$39.95

Infrared and Visible Light Emitters and Detectors

- Use for remote control and/or for fiber optics
- P/N 133946CE: Can be used with cameras, see page 234 (peak emission wavelength: 940nm @ 20mA)



Part No.	Cross Ref. No.	Fig.	Description	Size	Diameter inch/mm	Dimensions (inches)				Vf @ If	nm	mWatts	Pricing			
						A	B	C	D				1	10	100	1000
372710CE	UT0383-41-940	1	Infrared emitter diode (GaAs)	T1	0.125/3	0.16	0.88	0.94	0.04	1.3V @ 50mA	940	13	\$.23	\$.225	\$.151	\$.136
372728CE	UT0385-41-880	1	Infrared emitter diode (GaAs)	T1	0.125/3	0.16	0.88	0.94	0.04	1.3V @ 50mA	880	13	.30	.28	.176	.158
372736CE	UT1883-81-880 ¹	1	Infrared emitter diode (GaAs)	T1 3/4	0.200/5	0.30	0.88	0.94	0.04	1.5V @ 50mA	880	16	.32	.22	.176	.158
372744CE	UT1885-81-880 ²	1	Infrared emitter diode (GaAs)	T1 3/4	0.200/5	0.30	0.88	0.94	0.04	1.5V @ 50mA	880	16	.30	.28	.176	.158
372761CE	UT1883-81-940	1	Infrared emitter diode (GaAs)	T1 3/4	0.200/5	0.3	0.88	0.94	0.04	1.3V @ 50mA	940	16	.25	.197	.129	.116
372779CE	UT1885-81-940	1	Infrared emitter diode (GaAs)	T1 3/4	0.200/5	0.3	0.88	0.94	0.04	1.3V @ 50mA	940	16	.29	.23	.151	.136
372816CE	UT6W83-AE-940	4	Infrared emitter diode (GaAs), sidelook	4.45mm x 2.31mm	—	—	—	—	—	1.3V @ 50mA	940	50	.29	.23	.144	.13
372963CE	UT0393-46-0125 ¹	1	Infrared phototransistor	T1	0.125/3	0.16	0.88	0.94	0.04	—	—	—	.25	.24	.185	.167
372971CE	UT0395-46-0125 ²	1	Infrared phototransistor	T1	0.125/3	0.16	0.88	0.94	0.04	—	—	—	.25	.24	.185	.167
373000CE	UT1893-91-0125	1	Infrared phototransistor	T1 3/4	0.200/5	—	—	—	—	—	—	—	.26	.25	.192	.173
373042CE	UT6W93-AE-0125	4	Infrared phototransistor, side view	4.45mm x 2.31mm	—	—	—	—	—	—	—	—	.30	.28	.22	.198

Other Manufacturers — Great Deals

112150CE	LIR2043	1	Infrared emitter diode (GaAs)	T1	0.125/3	0.18	0.95	0.98	0.03	1.2V @ 20mA	940	5	\$.22	\$.18	\$.14	\$.12
133946CE	SLI-0308CP	1	Infrared emitter diode (GaAs)	T1	0.12/3	0.22	0.98	1.00	0.03	1.3V @ 50mA	940	4	.62	.53	.40	.31
112176CE	LPT2023	1	Infrared phototransistor	T1	0.12/3	0.18	0.95	0.98	0.03	—	940	—	.39	.29	.19	.15
106526CE	LVR3333	1	Infrared emitter diode (GaAs)	T1 3/4	0.200/5	0.34	0.78	0.84	0.04	1.2V @ 20mA	940	8	.39	.29	.19	.15
112168CE	LPT3313	1	Infrared phototransistor	T1 3/4	0.200/5	0.31	1.05	1.10	0.04	—	940	—	.36	.30	.24	.20
120221CE	BPW77NA	2	Visible light phototransistor	TO-18	—	0.24	0.19	0.52	—	—	850	—	1.99	1.89	1.55	.97
173231CE	OP133	3	Infrared emitter diode (GaAs)	TO-46	—	0.22	0.18	1.05	0.20	1.4V @ 100mA	935	5	2.15	1.95	1.69	1.59

Lens color: 1 = water clear; 2 = blue clear

LED Replacement Lamps



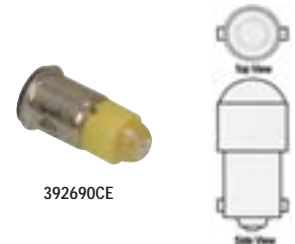
585 Series Non-Polarized

- Low current draw – 90% less energy than incandescent
- No heat generated
- Long life – up to 100k hours
- Mounts directly into industry standard socket

Multi-Chip Based LED T1 - Midget Flange

- Replaces incandescent lamp numbers: 327, 328, 330, 345, 350, 376, 377, 380, 381, 382, 385, 387, and 7341

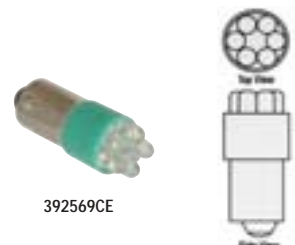
Part No.	Cross Ref. No.	Color	Nominal Voltage	Forward Current (mA) typ.	Intensity (mcd) typ.	Wavelength (nm)	Pricing		
							1	10	100
392673CE	585-1223	Ultra Red	14	20	280	625	\$5.79	\$5.65	\$4.48
392681CE	585-1323	Green	14	14	500	525	5.49	5.35	4.25
392690CE	585-1423	Yellow	14	20	530	588	5.49	5.35	4.25
392702CE	585-1225	Red	28	4.5	350	625	5.79	5.65	4.48
392711CE	585-1325	Green	28	4.5	300	525	5.49	5.35	4.25
392729CE	585-1425	Yellow	28	4.5	450	588	5.49	5.35	4.25



Cluster-Based LED T3 - Miniature Bayonet (BA9s)

- Replaces incandescent lamp numbers: 44, 47, 313, 755, 1815, 1819, 1847, 1850, 1866, 1889, 1891, 1892, 1893, and 1895

Part No.	Cross Ref. No.	Color	Nominal Voltage	Forward Current (mA) typ.	Intensity (mcd) typ.	Wavelength (nm)	Pricing		
							1	10	100
392551CE	585-5223	Red	14	20	7000	630	\$12.19	\$10.79	\$10.39
392569CE	585-5323	Green	14	20	6500	525	12.19	10.79	10.39
392585CE	585-5523	Yellow	14	20	7000	588	12.79	12.29	10.87
392593CE	585-5225	Red	28	15	6500	630	12.35	11.85	10.39
392606CE	585-5325	Green	28	15	6000	525	11.29	11.01	9.48
392622CE	585-5525	Yellow	28	15	6000	588	12.95	12.36	10.87
392631CE	585-5256	Red	120VAC	5.5	6500	625	9.89	9.64	8.31
392649CE	585-5356	Green	120VAC	5.5	7000	525	9.65	9.41	8.10
392665CE	585-5556	Yellow	120VAC	5.5	6500	590	11.15	10.87	9.35



Bayonet Based LED T3

- Replaces incandescent lamp numbers: 44, 47, 313, 755, 757, 1815, 1819, 1847, 1850, 1866, 1889, 1891, 1892, 1893, and 1895

Part No.	Cross Ref. No.	Color	Nominal Voltage	Forward Current (mA) typ.	Intensity (mcd) typ.	Wavelength (nm)	Pricing		
							1	10	100
394476CE	585-4123	Red	14	20	550	630	\$7.85	\$7.24	\$5.28
394492CE	585-4125	Red	28	14	350	630	7.85	7.24	5.28



LED Panel-Mount Indicators

- Easy panel installation
 - Panel/status/instrument indicators
- 141111CE/141129CE/141137CE: Chrome housing
236419CE: Black nylon housing



Part No.	Cross Ref. No.	LED Size	Color	Dimensions (in.)			Mounting Hole	Vf @ If	Pricing			
				L	A	B			1	10	100	1000
236419CE	5102H1-12V	T1 3/4	Red	.53	6.0	6.0	.25"	12V @ 15mA	\$1.19	\$1.07	\$.86	\$.64
141111CE	L922SRD	T1	Red	.56	.34	.25	.23"	2V @ 20mA	.79	.60	.52	.45
141129CE	L913RD	T1	Red	.56	.39	.32	.24"	12V @ 20mA	1.09	.81	.69	.61
141137CE	L917RD	T1 3/4	Red	.70	.55	.47	.31"	12V @ 20mA	.89	.79	.71	.55

Incandescent Panel Mount Lamps

- 215781CE/215790CE/215773CE: wire length - 3.9" (100mm)
- 215749CE/215757CE/215765CE: wire length - 4.9" (125mm)
- 215714CE/215722CE/215731CE: solder terminals - 0.196" (5mm)

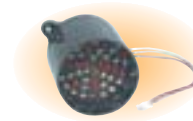


Part No.	Cross Ref. No.	Fig.	Voltage	Color	Mounting Hole	1	10	100
215773CE	R9-46B-W100-12V-R	1	12	Red	1/2" (13mm)	\$1.79	\$1.61	\$1.20
215781CE	R9-46B-W100-12V-Y	1	12	Yellow	1/2" (13mm)	1.65	1.45	1.19
215790CE	R9-46B-W100-12V-G	1	12	Green	1/2" (13mm)	1.79	1.61	1.20
215749CE	R9-55B-W130-12V-R	2	12	Red	9/32" (7mm)	1.79	1.59	1.35
215757CE	R9-55B-W130-12V-Y	2	12	Yellow	9/32" (7mm)	1.65	1.45	1.19
215765CE	R9-55B-W130-12V-G	2	12	Green	9/32" (7mm)	1.79	1.59	1.35
215714CE	R9-71B-05-12V-R	3	12	Red	5/8" (16mm)	1.79	1.61	1.20
215722CE	R9-71B-05-12V-Y	3	12	Yellow	5/8" (16mm)	1.65	1.45	1.19
215731CE	R9-71B-05-12V-G	3	12	Green	5/8" (16mm)	1.79	1.61	1.20

Cluster-Type T1 3/4 LED Lamps

- Cluster-type red/green T1 3/4 LEDs
 - Lens: water clear
 - Common anode
 - 660nm for red/570nm for green
 - 3 lead wires
- 150922CE: 14 Cluster (8 green/6 red)

Part No.	Product No.	Vf @ If	mcd @ mA	Lead Wire	Mounting Hole Dia.	Dimensions (Dia. x L)	Pricing		
							1	10	100
150922CE	LCR2614B-79	10V @ 20mA	1950 @ 20	7"	M3	1.02 x 1.51	\$4.95	\$4.21	\$3.16



Neon Panel Mount Lamps

- Input voltage: 120V
- Mounting hole diameter: 5/8" (16mm)
- Solder terminals: 0.196" (5mm)



Part No.	Cross Ref. No.	1	10	100
215802CE	R9-71N-05-120V-R ..	\$1.79	\$1.59	\$1.35
215811CE	R9-71N-05-120V-Y	1.79	1.59	1.35
215829CE	R9-71N-05-120V-G	1.79	1.59	1.35

Miniature Fluorescent Lamps

Add fluorescent color to your projects, computer case, car and other displays with these economical lights. Now you can easily and affordably mount these 4" light tubes to add cool cold-cathode effects and give your display a richer look and feel. Optional power supply below converts 12VDC input into 180V - 800V output needed by lights.



Part No.	Prod. No.	Description	1	10	25
239610CE	FLW1	White light	\$9.95	\$8.95	\$7.95
239572CE	FLB1	Blue light	9.95	8.95	7.95
239581CE	FLBL1	Black light	9.95	8.95	7.95
239628CE	FLY1	Yellow light	9.95	8.95	7.95
239601CE	FLP1	Pink light	9.95	8.95	7.95
239599CE	FLG1	Green light	9.95	8.95	7.95
239636CE	FLPS1	12VDC PS	9.95	8.95	7.95

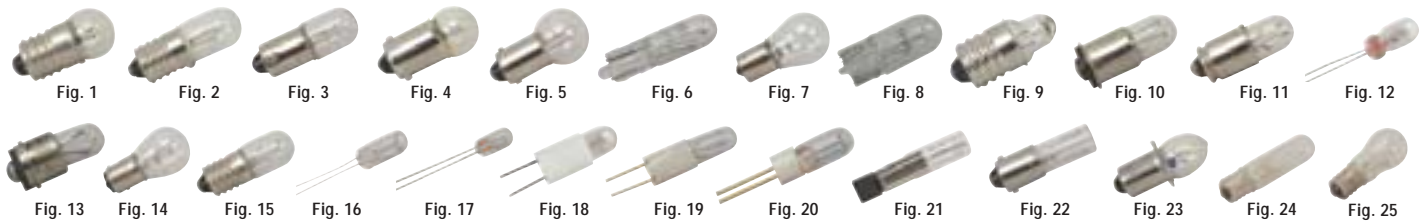
CdS Photocells

- Applications include: auto-focus lenses, exposure meters, contrast controls for TVs, dimmer or light switches, flame detectors, electronic toys, street lamp switches, optocouplers
- Generate variable signal based on detection of light levels
- Soldering: 230°C for 3 seconds
- Operating temperature: -30°C to +70°C
- Cadmium Sulfide (CdS)

Part No.	Cross Ref. No.	Rating		Resistance (Ω)		Size (inches)		Lead Spacing (inches)	Lead Length (inches)	Pricing			
		Vp	mW	Dark	Light	A	B			1	10	100	1000
120299CE	CDST08	50	200	100k	10k	0.40	0.44	0.30	1.50	\$.89	\$.80	\$.69	\$.52
202366CE	CDS0029001	150	90	300k	4k	0.14	0.17	0.10	1.02	1.69	1.52	1.22	.91
120310CE	CDS0029004	150	90	2M	27k	0.14	0.17	0.10	1.44	1.45	1.20	1.09	.99
202391CE	CDS0029203	150	90	10M	5k	0.14	0.17	0.10	1.02	1.49	1.35	1.19	1.09
202382CE	CDS0029008	150	90	20M	10k	0.14	0.17	0.10	1.02	1.49	1.34	1.21	.99
202420CE	CDS0018003	150	100	500k	16k	0.17	0.20	0.13	1.02	\$1.55 .78	.70	.64	.58
202403CE	CDS0018001	150	100	200k	3k	0.17	0.20	0.13	1.02	1.49	1.35	1.19	1.09
202411CE	CDS0018006	150	100	5M	80k	0.17	0.20	0.13	1.02	.69	.65	.59	.55
202438CE	CDS0037004	200	150	500k	15k	0.25	0.29	0.20	1.02	1.49	1.34	1.07	.80
120301CE	CDS0037001	200	150	300k	3k	0.25	0.29	0.20	1.02	1.79	1.59	1.45	1.29
120299CE	CDS0045001	350	400	300k	8k	0.37	0.43	0.30	1.44	1.79	1.59	1.45	1.29
202454CE	CDS0045003	350	400	1M	12k	0.37	0.43	0.30	1.44	1.69	1.55	1.35	1.15

Commercial Customers

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Just call us! 1-800-831-4242



Incandescent Lamps

Quantity SAVE

* Prepackaged: order in increments of 5, 10 or 100

Part No.	Cross Ref. No.	Fig.	Description	Volts	MSCP	Pricing			
						1	5	10	100
209381CE	13	1	G3 1/2 miniature screw	3.7	.98	\$.79	\$.75	\$.69	\$.59
209390CE	14	1	G3 1/2 miniature screw	2.47	.50	.55	.52	.49	.45
209402CE	40	2	T3 1/4 miniature screw	6.3	.50	.35	.29	.19	.15
209411CE	44	3	T3 1/4 miniature bayonet	6.3	.90	*	.22	.17	.13
209429CE	46	2	T3 1/4 miniature screw	6.3	.90	.45	.37	.32	.27
209437CE	47	3	T3 1/4 miniature bayonet	6.3	.50	*	.22	.17	.13
209445CE	50	1	G3 1/2 miniature screw	7.5	1.0	.59	.53	.45	.337
210403CE	51	4	G3 1/2 miniature bayonet	7.5	1.0	.42	.35	.29	.24
209453CE	53	4	G3 1/2 miniature bayonet	14.4	1.0	.49	.44	.39	.29
210411CE	55	5	G4 1/2 miniature bayonet	7.0	2.0	*	.20	.14	.09
209461CE	73	6	T1 3/4 wedge	14.0	.30	*	.24	.19	.16
209470CE	85	6	T1 3/4 wedge	28.0	.30	*	.24	.21	.17
209488CE	86	6	T1 3/4 wedge	6.3	.40	*	.24	.19	.15
209496CE	93	7	S-8 snl contact bayonet	12.8	15.0	.59	.53	.45	.335
209509CE	161	8	T3 1/4 wedge	14.0	1.0	.35	.31	.24	.18
209517CE	168	8	T3 1/4 wedge	14.0	3.0	.35	.30	.24	.18
209525CE	194	8	T3 1/4 wedge	14.0	2.0	*	.24	.19	.14
209533CE	222	9	GTL-3 miniature screw	2.25	—	.34	.31	.26	.195
209541CE	259	8	T3 1/4 wedge	6.3	.65	*	.24	.19	.16
209550CE	313	3	T3 1/4 miniature bayonet	28.0	3.5	.34	.31	.24	.18
209568CE	327	10	T1 3/4 midget flange	28.0	.34	.35	.29	.24	.22
209576CE	328	10	T1 3/4 midget flange	6.0	.60	.49	.44	.37	.275
209584CE	330	10	T1 3/4 midget flange	14.0	.50	.45	.39	.34	.29
209592CE	334	11	T1 3/4 midget groove	28.0	.34	.45	.40	.34	.255
209605CE	335	15	T1 3/4 midget screw	28.0	.34	.49	.44	.37	.275
209613CE	344	10	T1 3/4 midget flange	10.0	.002	.99	.89	.76	.57
209621CE	345	10	T1 3/4 midget flange	6.0	.03	.59	.53	.45	.337
209630CE	370	10	T1 3/4 midget flange	18.0	.15	1.09	.98	.83	.62
209648CE	376	10	T1 3/4 midget flange	28.0	.34	.59	.53	.45	.335
209656CE	379	11	T1 3/4 midget groove	6.3	.40	.69	.62	.53	.395
209664CE	381	10	T1 3/4 midget flange	6.3	.40	.49	.44	.37	.275
209672CE	382	10	T1 3/4 midget flange	14.0	.30	.61	.56	.49	.363
209681CE	385	10	T1 3/4 midget flange	28.0	.15	.61	.55	.47	.35
209699CE	386	11	T1 3/4 midget groove	14.0	.30	.45	.39	.33	.27
209701CE	387	10	T1 3/4 midget flange	28.0	.30	.44	.37	.25	.23
209710CE	388	11	T1 3/4 midget groove	28.0	.30	.39	.35	.29	.25
209728CE	394	10	T1 3/4 midget flange	12.0	.12	.61	.55	.47	.35
209736CE	656	8	T3 1/4 wedge .06A	28.0	.62	.34	.30	.24	.18
209752CE	657	8	T3 1/4 wedge .08A	28.0	.62	.34	.31	.25	.187
202100CE	683	12	T1 wire terminal	5.0	.05	.49	.39	.35	.28
209761CE	685	13	T1 sub midget flange	5.0	.05	1.25	.89	.79	.59
209779CE	715	12	T1 wire terminal	5.0	.15	.91	.82	.70	.52
209787CE	755	3	T3 1/4 miniature bayonet	6.3	.33	.49	.44	.37	.30
209795CE	756	3	T3 1/4 miniature bayonet	14.0	.31	.74	.68	.61	.49
209808CE	757	3	T3 1/4 miniature bayonet	28.0	.62	.42	.35	.32	.27
210438CE	1156	7	S-8 snl contact bayonet	12.8	32	.49	.45	.39	.35
210446CE	1157	14	S-8 double contact index	12.8/14	32/3	.45	.39	.35	.29
209816CE	1450	4	G3 1/2 miniature bayonet	24.0	.23	.99	.89	.76	.57
209824CE	1813	3	T3 1/4 miniature bayonet	14.4	.86	.35	.32	.27	.20
209832CE	1815	3	T3 1/4 miniature bayonet	14.0	1.4	.49	.39	.29	.25
209841CE	1816	3	T3 1/4 miniature bayonet	13.0	3.0	.35	.29	.24	.19
209859CE	1818	3	T3 1/4 miniature bayonet	24.0	3.3	.99	.89	.79	.69
209867CE	1819	3	T3 1/4 miniature bayonet	28.0	.34	.34	.31	.24	.18
209875CE	1820	3	T3 1/4 miniature bayonet	28.0	1.6	.49	.39	.34	.24
209883CE	1821	15	T3 1/4 screw	28.0	3.4	.99	.89	.79	.69
209891CE	1822	3	T3 1/4 miniature bayonet	36.0	2.1	.49	.44	.36	.27
209904CE	1829	3	T3 1/4 miniature bayonet	28.0	1.0	.35	.32	.27	.20

Incandescent Lamps (Continued)

* Prepackaged: order in increments of 5, 10 or 100

Part No.	Cross Ref. No.	Fig.	Description	Volts	MSCP	Pricing			
						1	5	10	100
209912CE	1835	3	T3 1/4 miniature bayonet	55.0	1.1	\$.61	\$.49	\$.36	\$.27
209921CE	1847	3	T3 1/4 miniature bayonet	6.3	.38	.55	.49	.36	.27
209939CE	1850	3	T3 1/4 miniature bayonet	5.0	.25	.50	.45	.38	.285
209947CE	1864	3	T3 1/4 miniature bayonet	28.0	3.0	.55	.50	.40	.30
209955CE	1866	3	T3 1/4 miniature bayonet	6.3	.65	.65	.59	.52	.39
209963CE	1891	3	T3 1/4 min. bayonet .24A	14.0	2.0	.49	.39	.29	.19
209971CE	1893	3	T3 1/4 min. bayonet .33A	14.0	2.0	.49	.39	.29	.24
141073CE	2182	16	T1 3/4 wire terminal	14.0	.30	.49	.44	.39	.34
141065CE	2200	16	T1 3/4 wire terminal	5.0	.05	.59	.54	.49	.44
141057CE	6833	17	T 3/4 wire terminal	5.0	.05	1.29	1.16	.87	.78
209998CE	7219	12	T1 wire terminal	12.0	.15	.35	.29	.25	.19
210008CE	7328	18	T1 3/4 bi-pin	6.0	.60	.89	.79	.69	.59
210016CE	7335	10	T1 3/4 midget flange	5.0	.15	.69	.59	.49	.39
210024CE	7341	10	T1 3/4 midget flange	28.0	.65	.79	.71	.60	.45
141006CE	7361	18	T1 3/4 bi-pin	5.0	.05	.99	.89	.79	.69
210032CE	7382	18	T1 3/4 bi-pin	14.0	.30	.61	.49	.44	.33
210041CE	7387	18	T1 3/4 bi-pin	28.0	.30	.61	.56	.49	.36
210059CE	7632	19	T1 1/4 bi-pin	28.0	.32	1.29	.99	.89	.67
210067CE	7683	20	T1 bi-pin	5.0	.05	1.19	1.07	.91	.68
210075CE	7715	20	T1 bi-pin	5.0	.15	1.19	.99	.89	.79
210083CE	7839	20	T1 bi-pin	28.0	.15	1.49	1.24	1.11	.83
210227CE	6PSB	21	T2 tel. slide base type 5	6.0	550	.63	.57	.48	.36
309673CE	6S6	25	S6 candelabra	120	—	.84	.80	.76	.57
210112CE	12ESB	21	T2 tel. slide base type 5	12.0	650	.54	.49	.41	.34
210121CE	12PSB	21	T2 tel. slide base type 5	12.0	2000	.54	.49	.41	.34
309681CE	20T6 1/2	24	T6 1/2 20W intermediate	120	—	1.69	1.59	1.55	1.16
210139CE	24ESB	21	T2 tel. slide base type 5	24.0	850	.54	.49	.41	.34
210147CE	24MB	22	T2 miniature bayonet	24.0	3000	.99	.89	.76	.57
210155CE	24PSB	21	T2 tel. slide base type 5	24.0	3000	.54	.49	.41	.34
210163CE	28ESB	21	T2 tel. slide base type 5	28.0	1500	.69	.62	.53	.39
210171CE	28MB	22	T2 miniature bayonet	28.0	1600	1.09	.98	.83	.62
210180CE	28PSB	21	T2 tel. slide base type 5	28.0	1600	.69	.62	.53	.395
210198CE	48PSB	21	T2 tel. slide base type 5	48.0	1800	.89	.80	.68	.51
210201CE	60MB	22	T2 miniature bayonet	60.0	2200	1.09	.98	.83	.62
210219CE	60PSB	21	T2 tel. slide base type 5	60.0	2200	.69	.59	.55	.49
210091CE	120MB	22	T2 miniature bayonet	120.0	1200	.86	.81	.74	.61
210104CE	120PSB	21	T2 tel. slide base type 5	120.0	1200	.69	.65	.59	.55
210340CE	PR2	23	B3 1/2 snl cont. mini flange	2.38	.80	*	.24	.20	.15
210358CE	PR3	23	B3 1/2 snl cont. mini flange	3.57	1.5	*	.24	.20	.15
210366CE	PR4	23	B3 1/2 snl cont. mini flange	2.33	.40	*	.24	.20	.15
210374CE	PR6	23	B3 1/2 snl cont. mini flange	2.47	.45	*	.24	.20	.15



Neon Lamps

Part No.	Cross Ref. No.	Fig.	Description	Voltage	Pricing			
					1	5	10	100
27351CE	A1A (NE-2)	1	Wire terminal .6mA	65-120	\$.42	\$.35	\$.31	\$.26
210243CE	A1B	1	Wire terminal .3mA	65-120	.34	.28	.25	.24
210251CE	A1C	1	Wire terminal 1.2mA	65-120	.45	.39	.29	.25
210260CE	A9A (NE-2E)	1	Wire terminal .7mA	65-120	.33	.29	.25	.19
210278CE	B1A (NE-51)	2	T3 1/4 miniature bayonet	65-120	.79	.75	.69	.59
210286CE	B2A (NE-51H)	2	T3 1/4 miniature bayonet	65-120	.86	.74	.61	.49
210294CE	B7A (NE-45)	3	T4 1/2 candelabra screw	65-120	3.99	3.49	2.99	2.49
210307CE	B9A (NE-48)	4	T4 1/2 D.C. bayonet	65-120	2.99	2.69	2.29	1.71
210315CE	C2A (NE-2H)	1	Wire terminal	65-120	.45	.39	.35	.26

CDE Polyester Film Capacitors



158X Series Type X2 Suppressors Metallized, Radial Lead

- Radial leads in two lengths
- Operating temp: -40° to 100°C
- Voltage range: 250VAC

NEW
ON THE WEB

160 Series Metallized Radial Lead

- Radial leaded (10mm to 27.5mm)
- Operating temp: -55° to 125°C
- Voltage range: 63VDC to 100VDC

167/184 Series Metallized Radial Lead

- Radial leaded (7.5mm) • Oper. temp: -55° to 125°C
- Voltage range: 63VDC to 630VDC

168/185 Series Metallized Radial Lead

- Radial leaded (5mm) • Oper. temp: -55° to 125°C
- Voltage range: 50VDC to 400VDC

Type DME Metallized Radial Lead

- Voltage range: 100-1000VDC
- Tolerance: $\pm 10\%$ (K); $\pm 5\%$ (J)
- Oper. temp: -55°C to 125°C

Type DMT, Film Foil, High Peak Currents, High Insulation Resistance Radial Lead

- Voltage range: 100-630VDC
- Tolerance: $\pm 10\%$ (K); $\pm 5\%$ (J)
- Oper. temp: -55°C to 125°C

Type DSF Stacked Metallized Radial Lead

- Voltage range: 50-100VDC
- Tolerance: $\pm 5\%$ (J) • Oper. temp: -40°C to 85°C

Type MMP Polyester Film Capacitors Metallized Oval, Axial Lead

- Voltage range: 100-630VDC
- Operating temp: -55°C to 125°C

Type MMWA High Capacitance, High Voltage Metallized, Axial Lead

- Voltage range: 50-1000VDC
- Operating temp: -55°C to 125°C

Type WMF, Film/Foil, Axial Lead

- Voltage range: 50-630VDC
- Operating temp: -55°C to 125°C
- Insulation resistance: 100,000M Ω

See Our Complete CDE Polyester Offering at
www.Jameco.com/Prod/CDEPolyester

CDE Dipped Mica Capacitors

Type CD5, CD6, CD7 Mini

- Operating temp: 50-500VDC
- Temp. range: -55°C to 125°C
- 20,000 V/ μ s dV/dT pulse capability min.

Type CD10, CD15, CD19 Standard

- Voltage range: 100-2500VDC
- Temp. range: -55° to 125°C (O) -55°C to 150°C (P)

Type CD16 & CDV16 Snubber & RF Applications

- Voltage range: 500-1000VDC
- Temp. range: -55° to 125°C
- Handle up to 9A_{RMS} continuous current

NEW
ON THE WEB

See Our Complete CDE Mica Offering at
www.Jameco.com/Prod/CDEMica

CDE Polypropylene Film Capacitors



Type 935 Metallized Axial Lead

- Voltage range: 100-400VDC
- Capacitance tolerance: $\pm 10\%$ (K); $\pm 5\%$ (J)
- Operating temp: -55° to 105°C

NEW
ON THE WEB

Type 940C High dV/dT, Round Metallized Axial Lead

- Voltage range: 600-3000VDC • Tolerance: $\pm 10\%$
- Operating temp: -55° to 105°C

Type DPPM Compact Snubber Film/Foil

- Voltage range: 1000-2000VDC
- Operating temp: -40°C to 105°C
- Tolerance: $\pm 10\%$ (K); $\pm 5\%$ (J); $\pm 20\%$ (M)

PVC Series Film/Foil Radial Lead

- Non-inductively wound

See Our Complete Polypropylene Offering at
www.Jameco.com/Prod/CDEPolypropylene

CDE Ceramic Capacitors

Type CK MIL-11015 & 39014 Multilayer

- Radial & axial leaded
- Molded case construction
- Voltage range: 50/100/20VDC

GE/GP General Purpose Disc

- Radial leads
- Temp range: -30°C to 85°C
- Insulation resistance: 10,000M Ω

HT Series EIA Class 2 Temp/Frequency

- Temp range: -30°C to 85°C
- Insulation resistance: 10,000M Ω

M15 to M50 Series Multilayer

- Radial leaded, conformal coated
- Voltage range: 50/100/200VDC
- UL94V-0 encapsulation

M60 Series Multilayer

- Radial leaded conformal coated
- Operating temp: -55°C to 125°C

P10-P40 Series Multilayer

- Voltage range: 50/100/200VDC
- Axial leaded conformal coated

NEW
ON THE WEB

See Our Complete CDE Ceramic Offering at
www.Jameco.com/Prod/CDECeramic

CDE Miscellaneous Capacitors

Type PSU AC Motor Start Capacitors

- Dual quick connect terminals
- Voltage range: 110-330VAC
- Operating temp: -40°C to 65°C

Type SCRNM Film-Paper/Extended Foil Commutating Capacitor

- Voltage range: 200-2000 Vpk
- Tolerance: $\pm 10\%$

NEW
ON THE WEB

See Our Complete CDE Offering at
www.Jameco.com/Prod/CDEOther

CDE Aluminum Electrolytic Capacitors

Type CGH High Voltage Screw Terminal Computer Grade

- Voltage range: 250-500VDC
- Temp range: -40° to 85°C
- High ripple current

NEW
ON THE WEB

Type CGR High Temperature Screw Terminal Computer Grade

- Voltage range: 7.5-200VDC
- Temp range: -40° to 105°C • High ripple current

Type CGS Screw Terminal Computer Grade

- Voltage range: 6.3-500VDC
- Temp. range: -40° to 85°C • High CV product

Type SEK Radial Lead

- Voltage range: 6.3-450VDC • Tolerance: $\pm 20\%$

Type SK Radial Lead

- Voltage range: 6.3-450VDC • Tolerance: $\pm 20\%$

Type SKA Axial Lead

- High CV
- Voltage range: 6.3-450VDC
- Tolerance: $\pm 20\%$

Type TC Axial Lead

- Voltage range: 16-450VDC
- Operating temp: -40°C to 85°C
- High reliability w/ high ripple

See Our Complete CDE Electrolytic Offering at
www.Jameco.com/Prod/CDEElectrolytic

CDE Radial Snap-In Capacitors

Type 380LX, 85°C High Capacitance

- -40°C to 85°C up to 300VDC
- -25°C to 85°C ≥ 315 V
- Leakage current: ≤ 3 CV or 3μ A @ 5 min.

Type 381LX 105°C High Ripple

- -40°C to 105°C up to 315VDC
- -25°C @ 350VDC & up to 450VDC
- Leakage current: ≤ 3 CV or 3μ A

NEW
ON THE WEB

Type LPX

- Operating temp: -40°C to 85°C
- Voltage range: 160-450VDC • Tolerance: $\pm 20\%$

Type LP

- Operating temp: -40°C to 105°C
- Voltage range: 16-250VDC

See Our Complete CDE Snap-In Offering at
www.Jameco.com/Prod/CDESnapIn

CDE SMT Aluminum Capacitors

Type AVS SMT 85°C

- Operating temp: -40° to 85°C
- Tolerance: $\pm 20\%$ @ 120Hz & 20°C
- Leakage current: 0.01CV or 3μ A @ 20°C whichever is greater

SPA ESRD/ESRE Solid Polymer

- Low impedance • Voltage range: 2-16VDC
- Ultra low ESR; 10m Ω @ 100kHz.

NEW
ON THE WEB

Type SGV

- Voltage range: 4-50VDC • Tolerance: $\pm 20\%$

See Our Complete CDE SMT Offering at
www.Jameco.com/Prod/CDESMT

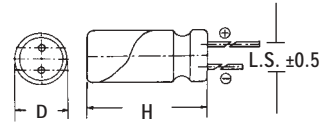
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Aluminum Radial-Lead Electrolytic Capacitors (±20%)

Leakage Current (20°C)	After 1 min.	0.03CV or 4µA, whichever is greater
	After 2 min.	0.01CV or 3µA, whichever is greater

† CROSS REFERENCES: Elna: RC2/RE2; IC: RAR/RSS; Marcon: SEM/SSM; Nichicon: LB/VX/USA/SR/SA;
 Rubycon: MS7/TWSS; Sprague: 501D/513D; UCC: SME/SRE/SRA/SRG; Panasonic: KA/KS/SU



85°C – General Purpose

*Prepackaged: order in increments of 10, 100 or 500

Part No.	Cross Ref. No.	Value (µF)	Voltage	Size (mm) D x H x L.S.	Pricing			
					1	10	100	500
330464CE	RA0.47/50	0.47	50V	5 x 11 x 2.0	*	\$.045	\$.039	\$.03
330536CE	RA.47/160	0.47	160V	5 x 11 x 2.0	*	.151	.103	.07
330430CE	RA1/25	1	25V	5 x 11 x 2.0	*	.045	.039	.03
94160CE	5R1/50	1	50V	4 x 5 x 1.5	*	.12	.08	.05
29832CE	R1/50	1	50V	5 x 11 x 2.0	*	.063	.053	.042
330544CE	RA1/160	1	160V	6 x 11 x 2.5	*	.047	.045	.04
330587CE	RA1/250	1	250V	6 x 11 x 2.5	*	.065	.06	.053
330405CE	RA2.2/16	2.2	16V	5 x 11 x 2.0	*	.045	.039	.03
93730CE	R2.2/50	2.2	50V	5 x 11 x 2.0	*	.038	.033	.026
199021CE	R2.2J/100	2.2	100V	5 x 11 x 2.0	*	.038	.032	.024
135184CE	R3.3/50	3.3	50V	5 x 11 x 2.0	*	.05	.04	.03
330413CE	RA4.7/16	4.7	16V	5 x 11 x 2.0	*	.045	.04	.03
330448CE	RA4.7/25	4.7	25V	5 x 11 x 2.0	*	.045	.039	.03
31001CE	R4.7/50	4.7	50V	6 x 11 x 2.0	*	.042	.037	.029
330595CE	RA4.7/250	4.7	250V	8 x 11 x 3.5	*	.112	.094	.083
198838CE	R10J/16	10	16V	5 x 11 x 2.0	*	.045	.03	.025
94211CE	5R10/25	10	25V	4 x 5 x 1.5	*	.13	.08	.05
94220CE	5R10/35	10	35V	5 x 5 x 2.0	*	.09	.07	.065
94369CE	7R10/35	10	35V	5 x 7 x 2.0	*	.11	.06	.04
29892CE	R10/50	10	50V	5 x 11 x 2.0	*	.067	.055	.045
330481CE	RA10/63	10	63V	5 x 11 x 2.0	*	.056	.047	.038
199048CE	R10J/100	10	100V	6 x 11 x 2.5	*	.07	.06	.05
330552CE	RA10/160	10	160V	8 x 11 x 3.5	*	.122	.114	.093
330608CE	RA10/250	10	250V	10 x 15 x 5.0	*	.16	.133	.114
330632CE	RA10/350	10	350V	10 x 20 x 5.0	.25	.226	.20	.171
330641CE	RA10/450	10	450V	13 x 21 x 5.0	.46	.414	.333	.241
198846CE	R22J/16	22	16V	5 x 11 x 2.0	*	.04	.035	.026
189918CE	R22J/25	22	25V	5 x 11 x 2.0	*	.039	.033	.025
198942CE	R22J/35	22	35V	5 x 11 x 2.0	*	.029	.026	.023
93738CE	R22/50	22	50V	5 x 11 x 2.0	*	.062	.056	.039
199056CE	R22J/100	22	100V	6 x 11 x 2.5	*	.15	.09	.06
330659CE	RA22/450	22	450V	16 x 26 x 7.5	.58	.517	.456	.39
198854CE	R33J/16	33	16V	5 x 11 x 2.0	*	.038	.034	.026
198926CE	R33J/25	33	25V	5 x 11 x 2.0	*	.037	.032	.024
93746CE	R33/50	33	50V	6 x 11 x 2.5	*	.055	.05	.045
199064CE	R33J/100	33	100V	8 x 11 x 3.5	*	.089	.08	.072
330667CE	RA33/450	33	450V	16 x 30 x 7.5	1.09	.97	.86	.62
135302CE	R47/10	47	10V	5 x 12 x 2.0	*	.04	.03	.025
198862CE	R47J/16	47	16V	5 x 11 x 2.0	*	.04	.032	.023
93754CE	R47/25	47	25V	5 x 11 x 2.0	*	.053	.037	.029
198951CE	R47J/35	47	35V	5 x 11 x 2.0	*	.05	.04	.03
31115CE	R47/50	47	50V	6 x 11 x 2.5	*	.067	.056	.05
330499CE	RA47/63	47	63V	8 x 12 x 3.5	*	.089	.075	.064
199072CE	R47J/100	47	100V	10 x 12 x 5.0	*	.15	.13	.10
330561CE	RA47/160S	47	160V	10 x 20 x 5.0	.34	.31	.276	.238
330616CE	RA47/250	47	250V	13 x 25 x 5.0	.57	.508	.447	.388
330675CE	RA47/450	47	450V	18 x 30 x 7.5	1.75	1.21	.92	.70
207812CE	R100/10	100	10V	5 x 11 x 2.0	*	.08	.06	.05
330421CE	RA100/16	100	16V	5 x 11 x 2.0	*	.056	.055	.048

*Prepackaged: order in increments of 10, 100 or 500

Part No.	Cross Ref. No.	Value (µF)	Voltage	Size (mm) D x H x L.S.	Pricing			
					1	10	100	500
94289CE	5R100/16	100	16V	6 x 5 x 2.5	*	\$.15	\$.12	\$.09
94431CE	7R100/16	100	16V	6 x 7 x 2.5	*	.09	.081	.069
93762CE	R100/25	100	25V	6 x 11 x 2.5	*	.078	.056	.039
198969CE	R100J/35	100	35V	6 x 11 x 2.5	*	.07	.06	.05
29963CE	R100/50	100	50V	8 x 11 x 3.5	*	.078	.067	.056
330501CE	RA100/63	100	63V	8 x 14 x 3.5	*	.122	.114	.095
330528CE	RA100/100	100	100V	10 x 20 x 5.0	.33	.282	.266	.19
330579CE	RA100/160S	100	160V	13 x 25 x 5.0	.56	.498	.437	.371
330624CE	RA100/250	100	250V	16 x 30 x 7.5	1.25	1.09	.95	.68
330683CE	RA100/450	100	450V	22 x 42 x 10.5	3.39	3.03	2.08	1.56
135124CE	7R220/10	220	10V	6 x 7 x 2.5	.26	.23	.19	.142
198871CE	R220J/16	220	16V	6 x 11 x 2.5	*	.11	.07	.06
30497CE	R220/25	220	25V	8 x 11 x 3.5	*	.08	.06	.05
93771CE	R220/35	220	35V	8 x 12 x 5.0	*	.09	.08	.07
93779CE	R220/50	220	50V	10 x 15 x 5.0	*	.167	.133	.10
330510CE	RA220/63	220	63V	10 x 17 x 5.0	.27	.235	.219	.181
199081CE	R220J/100	220	100V	12 x 25 x 5.0	.52	.47	.37	.28
198890CE	R330J/16	330	16V	8 x 11 x 3.5	*	.14	.07	.06
93797CE	R330/25	330	25V	8 x 12 x 3.5	*	.144	.10	.089
198977CE	R330J/35	330	35V	10 x 12 x 5.0	.20	.18	.144	.108
330472CE	RA330/50	330	50V	10 x 20 x 5.0	.26	.235	.209	.181
199099CE	R330J/100	330	100V	12 x 25 x 5.0	.60	.54	.43	.32
330384CE	RA470/10	470	10V	8 x 11 x 3.5	*	.103	.083	.067
93810CE	R470/16	470	16V	8 x 11 x 3.5	*	.11	.103	.099
31182CE	R470/25	470	25V	8 x 14 x 5.0	*	.133	.111	.10
93818CE	R470/35	470	35V	10 x 16 x 5.0	*	.17	.15	.13
93826CE	R470/50	470	50V	10 x 20 x 5.0	.32	.31	.21	.144
199101CE	R470J/100	470	100V	16 x 25 x 7.5	1.15	.78	.69	.58
330456CE	RA680/25S	680	25V	8 x 16 x 3.5	.97	.87	.78	.70
330392CE	RA1000/10	1000	10V	8 x 14 x 3.5	*	.132	.114	.091
30016CE	R1000/16	1000	16V	10 x 16 x 5.0	*	.16	.14	.12
93834CE	R1000/25	1000	25V	10 x 20 x 5.0	*	.25	.23	.18
286045CE	Q399L	1000	35V	12 x 20 x 5.0	.50	.46	.41	.33
93842CE	R1000/50	1000	50V	13 x 25 x 5.0	.58	.51	.455	.38
302578CE	R51000/50	1000	50V	18 x 21 x 7.5	.45	.40	.36	.31
199110CE	R1000J/100	1000	100V	18 x 40 x 7.5	2.29	2.06	1.65	1.24
133146CE	R2200/16	2200	16V	10 x 20 x 5.0	.36	.31	.267	.244
30534CE	R2200/25	2200	25V	13 x 21 x 5.0	.61	.545	.444	.333
198985CE	R2200J/35	2200	35V	16 x 25 x 7.5	1.39	1.25	.99	.74
198977CE	R3300J/16	3300	16V	12 x 25 x 5.0	.49	.39	.33	.29
30892CE	R3300/25	3300	25V	13 x 29 x 5.0	.79	.72	.545	.48
198993CE	R3300J/35	3300	35V	16 x 35 x 7.5	.87	.77	.67	.57
199013CE	R3300J/50	3300	50V	18 x 35 x 7.5	2.15	1.94	1.55	1.16
198900CE	R4700J/16	4700	16V	16 x 25 x 7.5	.79	.71	.57	.43
93851CE	R4700/25	4700	25V	16 x 31 x 7.5	1.10	.94	.78	.61
199005CE	R4700J/35	4700	35V	18 x 35 x 7.5	1.35	1.25	1.15	1.05
163302CE	R4700/50	4700	50V	22 x 42 x 10	2.25	1.99	1.67	1.45
31511CE	R6800/16	6800	16V	16 x 26 x 7.5	1.10	.87	.76	.66
198934CE	R6800J/25	6800	25V	18 x 35 x 7.5	1.59	1.43	1.14	.86

105°C – HT Type General Purpose

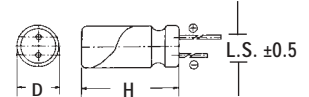
158481CE	R0.47B100	0.47	100V	5 x 11 x 2.0	*	\$.05	\$.04	\$.03
330771CE	RB1/50	1	50V	5 x 11 x 2.0	*	.056	.046	.036
158490CE	R1B100	1	100V	5 x 11 x 2.0	*	.06	.05	.04
330835CE	RB1/160	1	160V	5 x 11 x 2.0	*	.078	.067	.055
330780CE	RB4.7/50	4.7	50V	5 x 11 x 2.0	*	.056	.046	.036
330851CE	RB4.7/250	4.7	250V	8 x 11 x 3.5	*	.14	.122	.105
330691CE	RB10/16	10	16V	5 x 11 x 2.0	*	.039	.034	.029
330798CE	RB10/50	10	50V	5 x 11 x 2.0	*	.056	.046	.036

158529CE	R10B100	10	100V	6 x 11 x 2.5	*	\$.08	\$.07	\$.055
330843CE	RB10/160	10	160V	8 x 11 x 3.5	*	.149	.132	.114
330860CE	RB10/250	10	250V	10 x 17 x 5.0	.22	.207	.181	.162
207870CE	R22B/25	22	25V	5 x 11 x 2.0	*	.047	.037	.028
158326CE	R22B35	22	35V	5 x 11 x 2.0	*	.07	.05	.03
330801CE	RB22/50	22	50V	6 x 11 x 2.5	*	.067	.055	.044
158246CE	R47B25	47	25V	5 x 11 x 2.0	*	.06	.048	.036
330819CE	RB47/50	47	50V	6 x 11 x 2.5	*	.102	.08	.057



Aluminum Radial-Lead Electrolytic Capacitors (±20%)

Leakage Current (20°C)	After 1 min.	0.03CV or 4μA, whichever is greater
	After 2 min.	0.01CV or 3μA, whichever is greater



† CROSS REFERENCES: Elna: RC2/RE2; IC: RAR/RSS; Marcon: SEM/SSM; Nichicon: LB/VX/USA/SR/SA; Rubycon: MS7/TWSS; Sprague: 501D/513D; UCC: SME/SRE/SRA/SRG; Panasonic: KA/KS/SU

105°C – HT Type General Purpose (Continued)

* Prepackaged: order in increments of 10, 100 or 500

Part No.	Cross Ref. No. †	Value (μF)	Voltage	Size (mm) D x H x L.S.	Pricing			
					1	10	100	500
330704CE	RB100/16	100	16V	6 x 11 x 2.5	*	\$.067	\$.055	\$.044
330739CE	RB100/25	100	25V	6 x 11 x 2.5	*	.067	.057	.048
330747CE	RB100/35	100	35V	8 x 11 x 3.5	*	.084	.08	.074
158393CE	R100B50	100	50V	8 x 11 x 3.5	*	.09	.07	.055
330827CE	RB100/63	100	63V	10 x 13 x 5.0	*	.149	.132	.114
207845CE	R180/16	180	16V	6 x 15 x 2.5	*	.034	.031	.028
311757CE	R220B10	220	10V	6 x 11 x 2.5	.25	.191	.143	.102
158262CE	R220B25	220	25V	8 x 11 x 3.5	*	.12	.09	.07
330755CE	RB220/35S	220	35V	8 x 16 x 3.5	*	.149	.132	.114

* Prepackaged: order in increments of 10, 100 or 500

Part No.	Cross Ref. No. †	Value (μF)	Voltage	Size (mm) D x H x L.S.	Pricing			
					1	10	100	500
158406CE	R220B50	220	50V	10 x 12 x 5.0	\$.34	\$.31	\$.24	\$.18
330712CE	RB330/16	330	16V	8 x 11 x 3.5	*	.102	.08	.057
158203CE	R470B16	470	16V	8 x 11 x 3.5	*	.12	.10	.09
158289CE	R470B25	470	25V	10 x 12 x 3.5	*	.15	.12	.10
330763CE	RB470/35	470	35V	10 x 15 x 5.0	.28	.244	.219	.152
158465CE	R470B63	470	63V	12 x 20 x 5.0	.35	.317	.282	.234
158297CE	R1000B25	1000	25V	10 x 20 x 5.0	.35	.29	.25	.19
330721CE	RB1000/16	1000	16V	10 x 20 x 5.0	.23	.216	.19	.171
158377CE	R1000B35	1000	35V	10 x 20 x 5.0	.49	.44	.35	.26
158431CE	R2200B50	2200	50V	16 x 35 x 7.5	.99	.89	.71	.53

Other Manufacturers — Great Deals*

85°C – General Purpose

Quantity SAVE

29831CE	R1/50	1	50V	5 x 11 x 2.0	*	\$.057	\$.048	\$.038
93729CE	R2.2/50	2.2	50V	5 x 11 x 2.0	*	.034	.03	.023
135183CE	R3.3/50	3.3	50V	5 x 11 x 2.0	*	.045	.038	.029
31000CE	R4.7/50	4.7	50V	5 x 11 x 2.0	*	.038	.033	.026
29891CE	R10/50	10	50V	5 x 11 x 2.0	*	.06	.05	.04
93737CE	R22/50	22	50V	5 x 11 x 2.0	*	.06	.05	.035
93745CE	R33/50	33	50V	5 x 11 x 2.0	*	.05	.045	.04
135301CE	R47/10	47	10V	5 x 12 x 2.0	*	.036	.031	.023
93753CE	R47/25	47	25V	5 x 11 x 2.0	*	.048	.033	.026
31114CE	R47/50	47	50V	6 x 11 x 2.5	*	.06	.05	.045
207811CE	R100/10	100	10V	5 x 11 x 2.0	*	.072	.054	.045
93761CE	R100/25	100	25V	6 x 11 x 2.5	*	.07	.05	.035
29962CE	R100/50	100	50V	8 x 11 x 3.5	*	.07	.06	.05
30496CE	R220/25	220	25V	8 x 11 x 3.5	*	.08	.06	.05
93770CE	R220/35	220	35V	10 x 12 x 5.0	*	.09	.08	.07

93778CE	R220/50	220	50V	10 x 12 x 5.0	*	\$.15	\$.12	\$.09
198889CE	R330J/16	330	16V	8 x 11 x 3.5	*	.126	.076	.057
93796CE	R330/25	330	25V	10 x 12 x 5.0	*	.126	.107	.08
93809CE	R470/16	470	16V	8 x 11 x 3.5	*	.099	.095	.089
31181CE	R470/25	470	25V	10 x 12 x 5.0	*	.12	.10	.09
395591CE	R470B25-OM	470	25V	10 x 12 x 5.0	*	.14	.11	.09
93817CE	R470/35	470	35V	10 x 16 x 5.0	*	.153	.135	.117
93825CE	R470/50	470	50V	12 x 20 x 5.0	.29	.27	.19	.13
30015CE	R1000/16	1000	16V	10 x 16 x 5.0	*	.178	.156	.133
93833CE	R1000/25	1000	25V	10 x 20 x 5.0	.38	.278	.236	.177
93841CE	R1000/50	1000	50V	12 x 25 x 5.0	.52	.46	.41	.34
133145CE	R2200/16	2200	16V	12 x 20 x 5.0	.32	.28	.24	.22
30533CE	R2200/25	2200	25V	12 x 25 x 5.0	.55	.49	.40	.30
30891CE	R3300/25	3300	25V	16 x 25 x 7.5	.71	.65	.49	.43
93850CE	R4700/25	4700	25V	16 x 31 x 7.5	.99	.85	.70	.53
163301CE	R4700/50	4700	50V	22 x 42 x 10.0	1.99	1.79	1.50	1.31
31510CE	R6800/16	6800	16V	16 x 35 x 7.5	1.09	.98	.78	.59

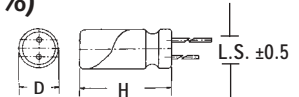
* Capacitor dimensions and styles may vary.



Aluminum Radial-Lead Non-Polarized Electrolytic Capacitors (±20%)

85°C – General Purpose

Leakage Current (20°C)	After 1 min.	0.03CV or 4μA, whichever is greater
	After 2 min.	0.01CV or 3μA, whichever is greater



† CROSS REFERENCES: Elna: RC2/RE2; IC: RAR/RSS; Marcon: SEM/SSM; Nichicon: LB/VX/USA/SR/SA; Rubycon: MS7/TWSS; Sprague: 501D/513D; UCC: SME/SRE/SRA/SRG; Panasonic: KA/KS/SU

* Prepackaged: order in increments of 10, 100 or 500

Part No.	Cross Ref. No. †	Value (μF)	Voltage	Size (mm) D x H x L.S.	Pricing			
					1	10	100	500
330931CE	RN0.47/50	0.47	50V	5 x 11 x 2.0	\$.28	\$.252	\$.19	\$.152
330940CE	RN1/50	1	50V	5 x 11 x 2.0	*	.159	.085	.076
331053CE	RN1/100	1	100V	5 x 11 x 2.0	*	.169	.086	.076
330958CE	RN2.2/50	2.2	50V	5 x 11 x 2.0	*	.159	.085	.076
331029CE	RN2.2/63	2.2	63V	5 x 11 x 2.0	.28	.243	.219	.197
331061CE	RN2.2/100	2.2	100V	5 x 11 x 2.0	*	.169	.086	.076
330966CE	RN3.3/50	3.3	50V	5 x 11 x 2.0	*	.171	.094	.086
331070CE	RN3.3/100	3.3	100V	5 x 11 x 2.0	*	.189	.095	.086
330907CE	RN4.7/25	4.7	25V	5 x 11 x 2.0	.28	.243	.219	.197
330974CE	RN4.7/50	4.7	50V	5 x 11 x 2.0	*	.171	.094	.086
331088CE	RN4.7/100	4.7	100V	6 x 11 x 2.5	*	.188	.095	.086
330915CE	RN10/25	10	25V	5 x 11 x 2.0	.28	.243	.219	.197

Part No.	Cross Ref. No. †	Value (μF)	Voltage	Size (mm) D x H	Pricing			
					1	10	100	500
330982CE	RN10/50	10	50V	8 x 11 x 3.5	\$.22	\$.198	\$.114	\$.105
331096CE	RN10/100	10	100V	8 x 11 x 3.5	.22	.198	.114	.105
330878CE	RN22/16	22	16V	5 x 11 x 2.0	.31	.279	.219	.181
330923CE	RN22/25	22	25V	5 x 11 x 2.0	.32	.288	.259	.233
330991CE	RN22/50	22	50V	6 x 11 x 2.5	.33	.31	.171	.162
331037CE	RN22/63	22	63V	8 x 11 x 3.5	.45	.409	.368	.331
331109CE	RN22/100	22	100V	10 x 15 x 5.0	.33	.297	.171	.162
330886CE	RN47/16	47	16V	6 x 11 x 2.5	.33	.297	.267	.241
331002CE	RN47/50	47	50V	8 x 11 x 3.5	.46	.414	.314	.285
331117CE	RN47/100	47	100V	10 x 20 x 5.0	.46	.414	.314	.285
330894CE	RN100/16	100	16V	8 x 11 x 3.5	.45	.405	.365	.328
331011CE	RN100/50	100	50V	10 x 17 x 5.0	.69	.621	.467	.428
331045CE	RN220/63	220	63V	5 x 11 x 2.0	.69	.62	.465	.428

85°C – Non-Polarized High-Frequency (Horizontal Deflection)

Part No.	Cross Ref. No.	Value (μF)	Voltage	Size (mm) D x H x L.S.	Pricing			
					1	10	100	500
331125CE	RN1/25S	1	25V	8 x 11 x 3.5	\$.37	\$.348	\$.186	\$.166
331205CE	RN1/50S	1	50V	8 x 11 x 3.5	.37	.348	.186	.166
331133CE	RN2.2/25S	2.2	25V	8 x 11 x 3.5	.37	.348	.186	.166
331213CE	RN2.2/50S	2.2	50V	8 x 11 x 3.5	.37	.348	.186	.166
331141CE	RN3.3/25S	3.3	25V	8 x 11 x 3.5	.37	.348	.186	.166
331221CE	RN3.3/50S	3.3	50V	8 x 11 x 3.5	.37	.348	.186	.166
331150CE	RN4.7/25S	4.7	25V	8 x 11 x 3.5	.37	.348	.186	.166
331230CE	RN4.7/50S	4.7	50V	8 x 11 x 3.5	.37	.348	.186	.166

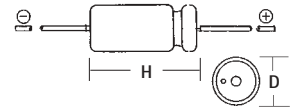
Part No.	Cross Ref. No.	Value (μF)	Voltage	Size (mm) D x H	Pricing			
					1	10	100	500
331168CE	RN5.6/25S	5.6	25V	8 x 11 x 3.5	\$.37	\$.348	\$.186	\$.166
331248CE	RN5.6/50S	5.6	50V	8 x 14 x 3.5	.45	.423	.226	.202
331176CE	RN6.8/25S	6.8	25V	8 x 11 x 3.5	.37	.348	.186	.166
331256CE	RN6.8/50S	6.8	50V	8 x 14 x 3.5	.45	.423	.226	.202
331184CE	RN8.2/25S	8.2	25V	8 x 14 x 3.5	.45	.423	.226	.202
331264CE	RN8.2/50S	8.2	50V	10 x 15 x 5.0	.58	.548	.293	.262
331192CE	RN10/25S	10	25V	8 x 14 x 3.5	.45	.423	.226	.202
331272CE	RN10/50S	10	50V	10 x 15 x 5.0	.58	.548	.293	.262

Aluminum Axial-Lead Electrolytic Capacitors

General purpose 85°C maximum

Operating temperature range	-40°C to +85°C
Leakage Current (After 2 minutes 20°C)	0.02CV or 2µA, whichever is greater

Quantity SAVE



† CROSS REFERENCES: Elna: RE2; IC: RAR; Marcon: SEM; Nichicon: LB/VX; Rubycon: TWSS; Sprague: 501D/513D; UCC: SME; Panasonic: SU

* Prepackaged: order in increments of 10, 100 or 500

* Prepackaged: order in increments of 10, 100 or 500

Part No.	Cross Ref. No.†	Value (µF)	Voltage	Size (mm) DxH	Pricing			
					1	10	100	500
10867CE	A1/50	1	50V	5 x 13	* .15	.115	.09	
93570CE	A2.2/50	2.2	50V	6 x 13	* .11	.10	.09	
199419CE	A3.3J/50	3.3	50V	6 x 12	* .197	.143	.105	
11077CE	A4.7/50	4.7	50V	6 x 13	* .18	.13	.11	
331301CE	AB4.7/63	4.7	63V	6 x 12	.23	.197	.143	.105
199427CE	A6.8J/50	6.8	50V	6 x 12	* .197	.143	.105	
199144CE	A10J/16	10	16V	6 x 12	* .20	.14	.10	
199259CE	A10J/25	10	25V	5 x 12	* .174	.15	.139	
93578CE	A10/35	10	35V	6 x 13	* .133	.107	.08	
10883CE	A10/50	10	50V	6 x 12	* .167	.133	.089	
331310CE	AB10/63	10	63V	6 x 12	* .15	.128	.105	
331424CE	AB10/450	10	450V	13 x 25	1.25	1.04	.94	.86
199152CE	A22J/16	22	16V	6 x 12	* .197	.143	.105	
199267CE	A22J/25	22	25V	6 x 12	* .197	.141	.105	
10998CE	A22/50	22	50V	6 x 12	* .19	.14	.10	
331328CE	AB22/63	22	63V	8 x 12	.22	.218	.173	.154
331387CE	AB22/160	22	160V	10 x 17	.80	.68	.62	.56
331432CE	AB22/450	22	450V	16 x 26	1.99	1.66	1.51	1.37
199161CE	A33J/16	33	16V	6 x 13	* .197	.143	.105	
199347CE	A33J/35	33	35V	6.3 x 16	* .197	.143	.105	
199435CE	A33J/50	33	50V	6.3 x 16	* .197	.143	.105	
199179CE	A47J/16	47	16V	6.3 x 12	* .134	.114	.085	
135320CE	A47/25	47	25V	8 x 16	* .15	.14	.09	
199355CE	A47J/35	47	35V	6.3 x 16	* .197	.143	.105	
11106CE	A47/50	47	50V	8 x 16	* .19	.14	.10	
331336CE	AB47/63	47	63V	8 x 16	* .171	.16	.13	
331361CE	AB47/100	47	100V	10 x 17	.34	.273	.247	.19
331395CE	AB47/160	47	160V	13 x 21	.75	.57	.368	.331
331441CE	AB47/450	47	450V	16 x 30	3.25	2.74	2.49	2.26
199443CE	A68J/50	68	50V	8 x 15	.21	.19	.15	.11
199187CE	A100J/16	100	16V	6.3 x 16	.24	.19	.17	.128
199283CE	A100J/25	100	25V	8 x 16	.25	.20	.18	.15
10912CE	A100/50	100	50V	8 x 20	* .245	.20	.155	
331344CE	AB100/63	100	63V	10 x 17	.37	.291	.257	.219
331379CE	AB100/100	100	100V	10 x 20	.85	.73	.57	.47

Part No.	Cross Ref. No.†	Value (µF)	Voltage	Size (mm) DxH	Pricing			
					1	10	100	500
331408CE	AB100/160	100	160V	16 x 26	\$1.79	\$1.53	\$1.39	\$1.26
331416CE	AB100/250	100	250V	16 x 30	2.45	2.09	1.93	1.80
331299CE	AB150/50	150	50V	10 x 17	.96	.86	.69	.65
199195CE	A220J16	220	16V	8 x 16	* .235	.20	.15	
199291CE	A220J/25	220	25V	8 x 16	.25	.21	.18	.12
199363CE	A220J/35	220	35V	10 x 17	.34	.273	.247	.185
11018CE	A220/50	220	50V	10 x 17	.35	.29	.25	.192
331352CE	AB220/63	220	63V	10 x 20	.55	.461	.409	.342
199208CE	A330J/16	330	16V	8 x 16	* .235	.20	.15	
199371CE	A330J/35	330	35V	10 x 17	.44	.367	.333	.25
199451CE	A330J/50	330	50V	13 x 22	.50	.432	.399	.299
199216CE	A470J/16	470	16V	8 x 16	.34	.273	.245	.184
199312CE	A470J/25	470	25V	10 x 17	.44	.367	.333	.235
199380CE	A470J/35	470	35V	10 x 21	.50	.404	.371	.278
11122CE	A470/50	470	50V	13 x 21	.59	.49	.42	.34
199460CE	A680J/50	680	50V	16 x 25	.85	.73	.57	.428
331281CE	AB1000/10	1000	10V	10 x 17	.51	.414	.38	.304
93632CE	A1000/16	1000	16V	10 x 20	.51	.46	.42	.40
10955CE	A1000/25	1000	25V	10 x 20	.66	.54	.49	.38
93650CE	A1000/35	1000	35V	13 x 25	.94	.83	.655	.545
147257CE	A1000/50	1000	50V	16 x 25	.88	.77	.66	.545
213356CE	A1000/50-16	1000	50V	22 x 41	.69	.59	.55	.49
11034CE	A2200/16	2200	16V	13 x 21	.88	.79	.72	.655
199321CE	A2200J/25	2200	25V	16 x 28	1.09	.90	.78	.59
93657CE	A2200/35	2200	35V	16 x 30	1.25	1.10	.99	.85
199478CE	A2200J/50	2200	50V	18 x 42	2.29	1.93	1.79	1.65
93666CE	A3300/25	3300	25V	16 x 32	1.10	.99	.88	.77
199398CE	A3300J/35	3300	35V	18 x 37	3.39	2.93	2.29	1.72
199486CE	A3300J/50	3300	50V	22 x 43	2.94	2.86	2.67	2.58
199232CE	A4700J/16	4700	16V	16 x 30	1.45	1.30	1.17	1.06
93674CE	A4700/25	4700	25V	16 x 30	1.69	1.49	1.29	.99
199401CE	A4700J/35	4700	35V	18 x 40	2.79	2.51	2.01	1.51
158810CE	A4700A50	4700	50V	25 x 43	2.79	2.29	2.09	1.79
199241CE	A6800J/16	6800	16V	16 x 33	2.59	2.33	1.86	1.40
199339CE	A6800J/25	6800	25V	18 x 40	2.35	2.12	1.69	1.27
93682CE	A10000/16	10000	16V	16 x 33	2.49	2.28	1.83	1.32

Other Manufacturers — Great Deals*

10866CE	A1/50	1	50V	5 x 13	* .135	.104	.078	
93569CE	A2.2/50	2.2	50V	6 x 13	* .125	.106	.08	
11076CE	A4.7/50	4.7	50V	6 x 13	* .162	.117	.099	
93577CE	A10/35	10	35V	6 x 13	* .155	.134	.119	
10882CE	A10/50	10	50V	6 x 12	* .15	.12	.08	
10997CE	A22/50	22	50V	6 x 12	* .17	.126	.09	
135319CE	A47/25	47	25V	8 x 16	* .135	.115	.086	
11105CE	A47/50	47	50V	8 x 16	* .17	.136	.102	
93551CE	A100/35	100	35V	8 x 16	* .21	.17	.13	
10911CE	A100/50	100	50V	8 x 20	* .22	.176	.132	

11017CE	A220/50	220	50V	10 x 20	\$.39	\$.32	\$.256	\$.192
11121CE	A470/50	470	50V	13 x 31	.53	.44	.38	.31
93631CE	A1000/16	1000	16V	13 x 27	.46	.41	.38	.36
10954CE	A1000/25	1000	25V	13 x 31	.59	.49	.44	.34
93649CE	A1000/35	1000	35V	13 x 26	.85	.75	.59	.49
147256CE	A1000/50	1000	50V	16 x 31	.79	.71	.57	.43
11033CE	A2200/16	2200	16V	16 x 40	.79	.71	.65	.59
93665CE	A3300/25	3300	25V	16 x 32	.99	.89	.79	.69
93673CE	A4700/25	4700	25V	22 x 39	1.55	1.34	1.16	.89
93681CE	A10000/16	10000	16V	22 x 51	2.25	2.05	1.85	1.49

* Capacitor dimensions and styles may vary

Blue Part No. = Limited Quantity Available

Aluminum Axial-Lead Non-Polarized Electrolytic Capacitors

85°C — General purpose



Part No.	Cross Ref. No.†	Value (µF)	Voltage	Size (mm) DxH	Pricing			
					1	10	100	500
331521CE	AN1/50	1	50V	6 x 16	\$.35	\$.342	\$.266	\$.209
331635CE	AN1/100	1	100V	6 x 16	.44	.428	.314	.247
331539CE	AN2.2/50	2.2	50V	6 x 16	.40	.38	.295	.228
331547CE	AN3.3/50	3.3	50V	6 x 16	.42	.399	.314	.238
331555CE	AN4.7/50	4.7	50V	6 x 16	.45	.428	.333	.266
331643CE	AN4.7/100	4.7	100V	6 x 16	.69	.66	.504	.38
331483CE	AN10/25	10	25V	6 x 16	.39	.37	.356	.284
331563CE	AN10/50	10	50V	6 x 16	.57	.542	.418	.333
331651CE	AN10/100	10	100V	8 x 16	.73	.69	.532	.504
331459CE	AN22/16	22	16V	6 x 16	.39	.351	.316	.284
331491CE	AN22/25	22	25V	6 x 16	.43	.387	.348	.313
331571CE	AN22/50	22	50V	6 x 16	.75	.71	.545	.437
331627CE	AN22/63	22	63V	8 x 16	.75	.71	.55	.437

Part No.	Cross Ref. No.†	Value (µF)	Voltage	Size (mm) DxH	Pricing			
					1	10	100	500
331660CE	AN22/100	22	100V	10 x 18	\$.86	\$.77	\$.69	\$.62
331580CE	AN33/50	33	50V	8 x 16	.69	.68	.67	.51
331678CE	AN33/100	33	100V	10 x 20	.87	.83	.67	.51
331504CE	AN47/25	47	25V	6 x 16	.51	.459	.413	.372
331598CE	AN47/50	47	50V	8 x 16	.85	.80	.74	.59
331686CE	AN47/100	47	100V	10 x 21	1.39	1.25	1.13	1.01
331467CE	AN100/16	100	16V	8 x 16	.53	.477	.429	.386
331512CE	AN100/25	100	25V	8 x 20	.57	.513	.462	.416
331601CE	AN100/50	100	50V	10 x 18	.91	.87	.83	.79
331694CE	AN100/100	100	100V	13 x 25	2.35	2.12	1.91	1.72
331475CE	AN220/16	220	16V	8 x 20	.75	.68	.61	.55
331619CE	AN220/50	220	50V	13 x 25	1.39	1.32	.99	.79



Snap-Mount Large-Can Aluminum Electrolytic Capacitors (±20%)

- Designed as an input filter for switched mode power supply; standard 10mm (0.40") snap-in spacing
- Operating temperature range: (SNA) -40°C to +85°C; (SNB) -40°C to +105°C
- Can-Top safety vent

Quantity SAVE

Snap-Ins!



† CROSS REFERENCES: Aero M: LP/LPR; Elna: LP3/LP4; Illinois Capacitor: LBA/LPR; Mallory: LPX; Marcon: CEAWF;

Nichicon: LLK/LLQ; Panasonic: TS-UP/TS-U; Phillips (MEPCO): 3487/3489; Rubycon: RSP; Sprague: 80D/82D; United Chemicon: SMG(VN)/SMH(VN)

115422CE

Part No.	Cross Ref. No. †	Value (µF)	Voltage	Size (mm) D x H	Pricing		
					1	10	100
331838CE	SNA68/450	68	450V	22 x 30	\$2.55	\$2.19	\$1.26
331926CE	SNB100/200	100	200V	30 x 40	1.95	1.50	.81
331846CE	SNA120/450	120	450V	22 x 40	3.09	2.33	1.45
331766CE	SNA220/200	220	200V	22 x 27	1.89	1.42	.89
331934CE	SNB220/200	220	200V	22 x 27	2.19	1.81	1.25
331791CE	SNA220/250	220	250V	22 x 36	2.19	1.65	1.02
332013CE	SNB220/250	220	250V	22 x 36	1.85	1.75	1.15
331854CE	SNA220/450	220	450V	25 x 48	4.39	3.31	2.06
203238CE	SN270/350	270	350V	25 x 40	4.15	3.53	2.65
331774CE	SNA330/200	330	200V	25 x 35	2.55	1.49	1.29
331942CE	SNA330/200	330	200V	25 x 30	1.75	1.66	1.39
331803CE	SNA330/250	330	250V	22 x 36	1.99	1.83	1.21
332021CE	SNB330/250	330	250V	22 x 36	2.19	2.10	1.35
203246CE	SN330/400	330	400V	30 x 46	4.69	4.21	2.92
331862CE	SNA330/450	330	450V	35 x 48	5.99	4.52	2.80
331951CE	SNB470/200	470	200V	22 x 41	2.39	2.19	1.26
331811CE	SNA470/250	470	250V	25 x 40	3.05	2.30	1.43
332030CE	SNB470/250	470	250V	25 x 40	2.35	2.15	1.61
203263CE	SN470/400/5	470	450V	35 x 51	8.25	7.60	5.69
155890CE	SN560/200	560	200V	23 x 41	3.19	2.69	1.90
331782CE	SNA560/200	560	200V	25 x 36	2.99	2.12	1.22
331969CE	SNB560/200	560	200V	25 x 36	3.35	2.39	1.36
332048CE	SNA560/250	560	250V	30 x 40	2.95	2.80	1.81

Part No.	Cross Ref. No. †	Value (µF)	Voltage	Size (mm) D x H	Pricing		
					1	10	100
203271CE	SN680/200/2	680	200V	35 x 25	\$2.59	\$2.33	\$1.74
331977CE	SNB680/200	680	200V	25 x 40	3.05	2.69	1.55
331820CE	SNA680/250	680	250V	25 x 48	3.79	2.86	1.77
332056CE	SNB680/250	680	250V	25 x 48	3.89	3.53	2.03
331985CE	SNB820/200	820	200V	25 x 48	3.15	2.78	1.73
332064CE	SNB820/250	820	250V	30 x 48	4.35	4.03	2.50
331993CE	SNB1000/200	1,000	200V	30 x 40	4.29	3.23	2.00
332072CE	SNB1000/250	1,000	250V	35 x 50	4.39	4.37	2.71
332005CE	SNB1500/200	1,500	200V	35 x 48	5.45	4.24	2.76
331871CE	SNB2200/50	2,200	50V	22 x 26	3.19	2.26	1.30
331889CE	SNB3300/50	3,300	50V	25 x 23	2.45	2.01	1.17
331740CE	SNA3300/80	3,300	80V	22 x 48	2.35	2.23	1.44
331897CE	SNB4700/50	4,700	50V	25 x 30	2.19	1.99	1.79
115422CE	SN4700/50	4,700	50V	30 x 41	3.19	2.55	1.91
331723CE	SNA4700/63	4,700	63V	25 x 33	3.75	3.06	2.54
331900CE	SNB6800/50	6,800	50V	25 x 40	2.69	2.40	1.68
115432CE	SN6800/50	6,800	50V	30 x 51	3.15	2.68	2.01
331758CE	SNA8200/80	8,200	80V	35 x 53	6.35	4.76	2.95
331707CE	SNA10000/16	10,000	16V	22 x 30	3.29	1.90	1.34
331918CE	SNB10000/50	10,000	50V	25 x 41	4.65	3.51	2.18
157737CE	SN10000/50	10,000	50V	35 x 40	4.95	4.10	3.99
331731CE	SNA10000/63	10,000	63V	35 x 40	5.49	4.45	3.94
331715CE	SNA15000/25	15,000	25V	25 x 40	2.65	2.35	1.78

Other Manufacturers — Great Deals*

203211CE	SN220/400/2	220	400V	22 x 51	\$4.15	\$3.53	\$2.65
115377CE	SN470/200	470	200V	30 x 41	2.25	1.91	1.43
203254CE	SN470/400/4	470	400V	35 x 41	6.35	5.40	4.05

*Capacitor dimensions may vary

155889CE	SN560/200	560	200V	23 x 41	\$2.49	\$2.12	\$1.59
115431CE	SN6800/50	6,800	50V	30 x 51	2.85	2.41	1.81



Memory Back-Up Capacitors

- Applications:**
- Memory back-up of remote controllers
 - Back-up on CMOS microcomputers, static RAM, DTSs (digital tuning systems)

Features:

- Small size vs. capacitance
- Voltage: 5.5VDC
- Excellent voltage holding characteristics for low back-up currents



Part No.	Cross Ref. No.	Value (Farad)	1	10	100
142922CE	MBC.047/5.5	.047	\$1.49	\$1.34	\$.99
142949CE	MBC.22/5.5	.22	2.09	1.79	1.41
143010CE	MBC.47/5.5	.47	3.49	3.15	2.59

Other Manufacturers — Great Deals*

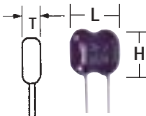
142957CE	MBC1.0/5.5	1.0	\$4.29	\$3.85	\$3.49
227811CE	SSR5V105	1.0	4.49	3.82	2.86

*Capacitor dimensions and styles may vary

Dipped Silver Mica Capacitors (±5%)

Metallized Polyester Film Capacitors

- Case type: DM15
- Lead Space: 0.23"
- Tolerance: ±5%
- Operating temp. range: -55° to +125°C



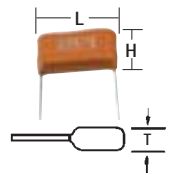
Part No.	Cross Ref. No.	Value	Volt. (V)	Size (mm) L x T x H	Pricing			
					1	10	100	1000
15991CE	DM100	10pF	500	11 x 4 x 9	\$.49	\$.44	\$.35	\$.26
16037CE	DM220	22pF	500	11 x 4 x 9	.49	.39	.29	.23
16070CE	DM330	33pF	500	11 x 4 x 9	.49	.38	.31	.29
16096CE	DM470	47pF	500	11 x 4 x 9	.49	.39	.29	.25
16002CE	DM101	100pF	500	11 x 4 x 9	.49	.44	.35	.26
16088CE	DM331	330pF	500	11 x 4 x 9	.89	.73	.55	.45
16109CE	DM471	470pF	500	11 x 4 x 9	1.05	.94	.76	.57
16011CE	DM102	1000pF	100	11 x 4 x 9	1.19	1.07	.86	.64

*Capacitor dimensions and styles may vary

Mylar Capacitors (±10%)

Metallized Polyester Film Capacitors

- High performance at low cost
- Non-inductive construction
- Operating temp. range: -40°C to +85°C
- Dissipation factor: ≤.01 (at 1kHz)
- Dielectric strength: 150% of rated voltage for 5sec.



† Cross References: Panasonic: ECQ-E Series; Sprague: DF/450P/451P/453P; Westlake: 160/168/185/167/184/186; Rubycon: MC/MNN; Mepco: 713A1/719A1/C280; TRW: X601PE/X601CPE; Packtron: MF/RB; Secor: MMKS/MMKR/MMDR; RIFA: PHE353/PHE354; Roederstein: MKT 1818/MKT 1822; WIMA: MKS; CSF Thompson: MD/MC; Siemens: B325X-XX; NIC: NEM/NRM; Nichicon: DDXM; Phillips: 712 A1 series

*Prepackaged: order in increments of 10, 100 or 1000

Part No.	Cross Ref. No. †	Value (µF)	Volt. (V)	Size (mm)* L x T x H	Pricing			
					1	10	100	1000
26833CE	MY.001	.001	100	7.0 x 3.0 x 7.0	* .10	* .07	* .05	
207802CE	MY.0015/1000	.0015	1000	23.5 x 5.1 x 10.7	* .034	* .031	* .028	
26868CE	MY.0022	.0022	100	6.0 x 3.0 x 10.0	* .09	* .056	* .043	
26876CE	MY.0047	.0047	100	6.0 x 3.0 x 9.0	* .14	* .119	* .089	
207829CE	MY.0068/220	.0068	220	18.0 x 5.5 x 10.0	* .12	* .07	* .05	
26884CE	MY.01	.01	100	6.0 x 3.0 x 7.0	* .10	* .06	* .04	
207837CE	MY.018/50	.018	50	6.1 x 2.6 x 11.3	* .068	* .062	* .057	
26905CE	MY.022	.022	100	6.0 x 3.0 x 10.0	* .15	* .10	* .06	
26921CE	MY.033	.033	100	8.0 x 4.0 x 11.0	* .15	* .10	* .06	
207861CE	MY.033/400	.033	400	11.0 x 4.0 x 8.0	.28	.224	.198	.164
26930CE	MY.047	.047	100	8.0 x 4.0 x 12.0	* .15	* .10	* .06	
135562CE	MY.1/50	.1	50	14.0 x 6.0 x 12.0	* .11	* .062	* .056	
26956CE	MY.1	.1	100	12.5 x 5.0 x 9.5	* .17	* .12	* .07	
93921CE	MY.1/250	.1	250	12.5 x 5.5 x 10	* .19	* .16	* .13	
26972CE	MY.22	.22	100	12.5 x 5.5 x 10	* .19	* .12	* .085	
93964CE	MY.33/250	.33	250	18.0 x 7.0 x 12.5	.27	.221	.177	.133
26999CE	MY.47	.47	100	18.0 x 6.0 x 11.5	.39	.29	.20	.17
27001CE	MY1	1.0	100	18.0 x 7.5 x 14.0	.49	.39	.33	.29
93981CE	MY1/250	1.0	250	26.0 x 9.0 x 16.0	.50	.45	.40	.34
93999CE	MY2/250	2.2	250	26.0 x 9.0 x 16.0	.89	.69	.59	.45

† ±20% tolerance *Capacitor dimensions and styles may vary

Ceramic Disc Capacitors (±20%)

25, 50 and 1000 Volt, Z5U Temperature Coefficient

Operating temperature range	+10°C to +85°C
Cap. change over temp. range	+22% to -56%
Dielectric withstanding voltage	2.5 times rated volt. for not < 1 sec.



*Prepackaged: order in increments of 10, 100 or 1000

*Prepackaged: order in increments of 10, 100 or 1000

Part No.	Cross Ref. No.	Value	Volt.	Size (mm) Dia. x L.S.	Pricing				
					1	10	100	1000	5000
332179CE	CD1/50	1pF	50V	5 x 2.5	*	\$.014	\$.009	\$.008	\$.007
135142CE	DC2.2	2.2pF	50V	5 x 2.5	*	.05	.035	.019	.015
332291CE	CD3.3/1000	3.3pF	1000V	5 x 2.5	*	.176	.103	.098	.097
332187CE	CD5/50	5pF	50V	5 x 2.5	*	.056	.028	.027	.026
332304CE	CD5/1000	5pF	1000V	5 x 2.5	*	.143	.108	.097	.092
15334CE	DC10	10pF	50V	5 x 2.5	*	.07	.05	.02	.015
332312CE	CD10/1000	10pF	1000V	6 x 2.5	.44	.35	.20	.18	.17
332195CE	CD12/50	12pF	50V	5 x 2.5	*	.014	.009	.008	.007
332208CE	CD15/50	15pF	50V	5 x 2.5	*	.03	.018	.016	.015
332321CE	CD20/1000	20pF	1000V	5 x 2.5	.44	.35	.20	.18	.17
15406CE	DC22	22pF	50V	6 x 2.5	*	.078	.055	.028	.022
332339CE	CD22/1000	22pF	1000V	5 x 2.5	*	.093	.052	.048	.044
332216CE	CD33/50	33pF	50V	5 x 2.5	*	.056	.027	.025	.02
15511CE	DC47	47pF	50V	5 x 2.5	*	.055	.039	.022	.017
332347CE	CD47/1000	47pF	1000V	5 x 2.5	.42	.234	.167	.092	.08
332224CE	CD68/50	68pF	50V	5 x 2.5	*	.065	.033	.029	.025
332355CE	CD68/1000	68pF	1000V	5 x 2.5	*	.141	.095	.086	.082
15342CE	DC100	100pF	50V	5 x 2.5	*	.056	.039	.028	.022
332232CE	CD120/50	120pF	50V	5 x 2.5	*	.056	.029	.027	.021
332363CE	CD120/1000	120pF	1000V	5 x 2.5	.23	.206	.147	.081	.071
332371CE	CD150/1000	150pF	1000V	5 x 2.5	*	.201	.143	.079	.068
15414CE	DC220	220pF	50V	5 x 2.5	*	.05	.035	.025	.015
332380CE	CD220/1000	220pF	1000V	5 x 2.5	.42	.201	.143	.079	.068
15449CE	DC330	330pF	50V	5 x 2.5	*	.05	.035	.025	.022
332398CE	CD330/1000	330pF	1000V	5 x 2.5	.42	.235	.17	.096	.091
15529CE	DC470	470pF	50V	5 x 2.5	*	.09	.072	.028	.024

Part No.	Cross Ref. No.	Value	Volt.	Size (mm) Dia. x L.S.	Pricing				
					1	10	100	1000	5000
332401CE	CD470/1000	470pF	1000V	5 x 2.5	\$.42	\$.235	\$.17	\$.096	\$.09
332419CE	CD560/1000	560pF	1000V	6 x 2.5	*	.043	.042	.041	.039
332241CE	CD680/50	680pF	50V	5 x 2.5	*	.056	.03	.027	.021
332427CE	CD680/1000	680pF	1000V	6 x 2.5	*	.149	.084	.071	.067
207853CE	DC820/1000	820pF	1000V	14 x 2.5	*	.07	.059	.048	.036
332435CE	CD1000/1000	1000pF	1000V	5 x 2.5	.38	.235	.17	.096	.09
332259CE	CD1200/50	1200pF	50V	5 x 2.5	*	.056	.03	.027	.021
332267CE	CD1500/50	1500pF	50V	5 x 2.5	*	.056	.03	.027	.021
332275CE	CD2200/50	2200pF	50V	5 x 2.5	*	.074	.037	.033	.027
332443CE	CD2200/1000	2200pF	1000V	6 x 2.5	.42	.293	.235	.12	.112
332283CE	CD3300/50	3300pF	50V	5 x 2.5	*	.074	.037	.033	.027
332451CE	CD4700/1000	4700pF	1000V	7 x 2.5	.35	.34	.208	.198	.188
332460CE	CD5000/1000	5000pF	1000V	7 x 2.5	.31	.30	.186	.177	.168
332478CE	CD7500/1000	7500pF	1000V	8 x 2.5	.48	.456	.323	.307	.292
15191CE	DC.001	.001µF	50V	6 x 2.5	*	.067	.056	.028	.024
97342CE	DC.0022/1K20	.0022µF	1000V	11 x 2.5	*	.22	.18	.16	.11
15212CE	DC.0047	.0047µF	50V	6 x 2.5	*	.05	.035	.03	.02
15230CE	DC.01	.01µF	50V	6 x 2.5	*	.067	.045	.033	.023
97376CE	DC.01/1K20	.01µF	1000V	12 x 2.5	*	.20	.133	.093	.073
332486CE	CD20000/1000	.02µF	1000V	16 x 2.5	.60	.57	.33	.26	.247
15246CE	DC.022	.022µF	50V	8 x 2.5	*	.07	.05	.04	.03
15254CE	DC.047	.047µF	50V	8 x 2.5	*	.093	.077	.063	.044
332494CE	CD47000/1000	.047µF	1000V	16 x 2.5	1.59	1.22	.71	.68	.65
332507CE	CD50000/1000	.05µF	1000V	16 x 2.5	1.35	1.28	.81	.65	.62
151117CE	DC.1/25	.1µF	25V	6 x 2.5	*	.155	.145	.089	.078
15271CE	DC.1	.1µF	50V	8 x 2.5	*	.167	.145	.128	.105
332515CE	CD100000/1000	.1µF	1000V	21 x 2.5	1.95	1.79	1.05	.83	.79

Other Manufacturers — Great Deals*

Quantity SAVE

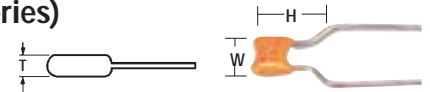
135141CE	DC2.2	2.2pF	50V	5	*	\$.05	\$.035	\$.019	\$.015
15333CE	DC10	10pF	50V	5	*	.063	.045	.018	.013
15405CE	DC22	22pF	50V	6	*	.07	.05	.025	.02
15510CE	DC47	47pF	50V	5	*	.05	.035	.02	.015
15341CE	DC100	100pF	50V	5	*	.05	.035	.025	.02
15413CE	DC220	220pF	50V	5	*	.045	.032	.023	.013
15448CE	DC330	330pF	50V	5	*	.045	.041	.029	.016
15528CE	DC470	470pF	50V	5	*	.08	.065	.025	.022
15190CE	DC.001	.001µF	50V	6	*	.06	.054	.043	.032

97341CE	DC.0022/1K20	.0022µF	1000V	11	*	\$.242	\$.166	\$.097	\$.072
15211CE	DC.0047	.0047µF	50V	6	*	.045	.032	.027	.02
15229CE	DC.01	.01µF	50V	6	*	.06	.04	.03	.02
97375CE	DC.01/1K20	.01µF	1000V	12	*	.18	.12	.084	.066
15245CE	DC.022	.022µF	50V	8	*	.063	.045	.036	.027
15253CE	DC.047	.047µF	50V	8	*	.084	.069	.057	.04
151116CE	DC.1/25	.1µF	25V	6	*	.14	.13	.08	.07
15270CE	DC.1	.1µF	50V	8	*	.15	.135	.108	.081

*Capacitor dimensions and styles may vary

Monolithic Ceramic Capacitors (±20%) (Z5U Series)

Applications: • Data processing • Communications engineering
Operating temp. range: -10°C to +85°C *Prepackaged: order in increments of 10, 100 or 1000



*Prepackaged: order in increments of 10, 100 or 1000

Part No.	Cross Ref. No.	Value	Volt.	Size (mm) W x T x H x L.S.	Pricing				
					1	10	100	1000	5000
81542CE	MD10	10pF	50V	3.5 x 2.0 x 3.0 x 2.5	*	\$.10	\$.065	\$.045	\$.034
332523CE	MOC10/100	10pF	100V	4.2 x 3.0 x 4.2 x 2.5	*	.089	.065	.046	.044
332531CE	MOC15/100	15pF	100V	4.2 x 3.0 x 4.2 x 2.5	.30	.202	.144	.101	.096
81534CE	MD22	22pF	50V	4.0 x 2.0 x 4.0 x 2.5	*	.105	.081	.05	.045
332540CE	MOC22/100	22pF	100V	4.2 x 3.0 x 4.2 x 2.5	*	.10	.073	.051	.048
332558CE	MOC33/100	33pF	100V	4.2 x 3.0 x 4.2 x 2.5	*	.167	.122	.08	.076
332566CE	MOC47/100	47pF	100V	4.2 x 3.0 x 4.2 x 2.5	*	.118	.086	.06	.057
332574CE	MOC68/100	68pF	100V	4.2 x 3.0 x 4.2 x 2.5	.30	.202	.144	.101	.096
81526CE	MD100	100pF	50V	3.5 x 2.0 x 3.0 x 2.5	*	.10	.078	.05	.039

Part No.	Cross Ref. No.	Value	Volt.	Size (mm) W x T x H x L.S.	Pricing				
					1	10	100	1000	5000
81518CE	MD.001	.001µF	50V	4.5 x 2.0 x 3.0 x 2.5	*	\$.10	\$.078	\$.075	\$.068
138182CE	MD.0022	.0022µF	50V	4.0 x 2.0 x 5.5 x 2.5	*	.078	.067	.055	.045
25508CE	MD.01	.01µF	50V	3.5 x 2.0 x 3.0 x 2.5	*	.09	.06	.045	.041
57622CE	MD.047	.047µF	50V	2.5 x 2.5 x 3.0 x 2.5	*	.08	.07	.05	.039
25524CE	MD.1	.1µF	50V	6.0 x 2.0 x 4.0 x 2.5	*	.078	.067	.044	.039
25541CE	MD.22	.22µF	50V	6.0 x 2.0 x 4.5 x 2.5	*	.189	.133	.089	.072
138238CE	MD.33	.33µF	50V	6.0 x 2.0 x 8.0 x 2.5	*	.178	.155	.122	.078
25559CE	MD.47	.47µF	50V	4.5 x 2.5 x 4.5 x 2.5	.43	.39	.28	.21	.145
81510CE	MD1	1µF	50V	6.0 x 3.0 x 7.0 x 2.5	.53	.48	.355	.255	.233

Other Manufacturers — Great Deals*

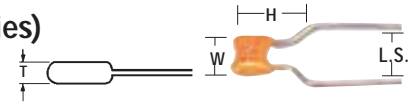
81541CE	MD10	10pF	50V	3.5 x 2.0 x 3.0	*	\$.09	\$.056	\$.04	\$.027
81533CE	MD22	22pF	50V	4.0 x 2.0 x 4.0	*	.095	.073	.045	.04
81525CE	MD100	100pF	50V	3.5 x 2.0 x 3.0	*	.09	.07	.045	.035
81517CE	MD.001	.001µF	50V	4.5 x 2.0 x 3.0	*	.09	.07	.05	.035
138181CE	MD.0022	.0022µF	50V	4.0 x 2.0 x 5.5	*	.07	.06	.05	.038
138202CE	MD.0047	.0047µF	50V	5.0 x 2.0 x 5.5	*	.07	.063	.05	.038
25507CE	MD.01	.01µF	50V	3.5 x 2.0 x 3.0	*	.10	.067	.05	.045

57621CE	MD.047	.047µF	50V	2.5 x 2.5 x 3.0	*	\$.072	\$.063	\$.045	\$.027
25523CE	MD.1	.1µF	50V	6.0 x 2.0 x 4.0	*	.07	.06	.04	.035
25540CE	MD.22	.22µF	50V	6.0 x 2.0 x 4.5	*	.17	.12	.08	.06
138237CE	MD.33	.33µF	50V	6.0 x 2.0 x 8.0	*	.16	.14	.11	.07
25558CE	MD.47	.47µF	50V	4.5 x 2.5 x 4.5	*	.25	.19	.13	.12
81509CE	MD1	1µF	50V	6.0 x 3.0 x 7.0	.48	.43	.32	.23	.21

*Capacitor dimensions and style may vary

Monolithic Ceramic Capacitors (±10%) (XR7 Series)

Applications: • Data processing • Communications engineering
Operating temp. range: -10°C to +85°C



* Prepackaged: order in increments of 10, 100 or 1000

Part No.	Cross Ref. No.	Value	Volt.	Size (mm) W x T x H x L.S.	Pricing			
					1	10	100	5000
332582CE	MOC100/100	100pF	100V	5 x 5 x 3 x 2.5	* \$.14	\$.12	\$.081	\$.071
332591CE	MOC220/100	220pF	100V	5 x 5 x 3 x 2.5	.27	.188	.134	.074
332603CE	MOC330/100	330pF	100V	5 x 5 x 3 x 2.5	.27	.188	.134	.089
332611CE	MOC470/100	470pF	100V	5 x 5 x 3 x 2.5	* .121	.088	.08	.076
332620CE	MOC1000/100	1000pF	100V	5 x 5 x 3 x 2.5	* .107	.078	.055	.052
332638CE	MOC4700/100	4700pF	100V	5 x 5 x 3 x 2.5	* .107	.078	.055	.052

* Prepackaged: order in increments of 10, 100 or 1000

Part No.	Cross Ref. No.	Value	Volt.	Size (mm) W x T x H x L.S.	Pricing			
					1	10	100	5000
332646CE	MOC10000/100	0.01µF	100V	5 x 5 x 3 x 2.5	* \$.125	\$.090	\$.063	\$.060
332654CE	MOC22000/100	0.022µF	100V	5 x 5 x 3 x 2.5	* .111	.080	.056	.053
332662CE	MOC47000/100	0.047µF	100V	5 x 5 x 3 x 2.5	* .142	.104	.073	.069
332671CE	MOC100000/100	0.1µF	100V	5 x 5 x 3 x 2.5	* .132	.096	.067	.064
332689CE	MOC150000/100	0.15µF	50V	5 x 5 x 3 x 2.5	.45	.408	.366	.33

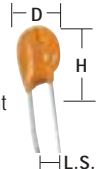
Dipped Tantalum Capacitors (±10%)

Resin Dipped Solid Tantalum Capacitors

- Operating temp. range: -55°C to +85°C (+125°C with derating)
- Rated voltage DC: ≤ +85°C
- Low leakage current
- Exceptional temperature stability
- Moisture-resistant
- Flame retardant coating
- Designed for entertainment and commercial equipment

† Cross References: Panasonic: EF Series; AVX: Tap Series; Sprague: 196D and 199D; Matsuo: 202; Kemet: T350/ T360; Mepco: 49GS; NEC: DN; Nichicon: 599; NIC: NDTM; Hitachi: TSD-3

* Prepackaged: order in increments of 10, 100 or 500



Part No.	Cross Ref. No. †	Value	Volt.	Size (mm) D x H x L.S.	Pricing			
					1	10	100	500
33487CE	TM.1	.1µF	35	4.5 x 7 x 2.5	* \$.25	\$.19	\$.15	
332110CE	TDR0.1/50	.1µF	50	4.5 x 7 x 2.5	.30	.269	.194	.18
33508CE	TM.22	.22µF	35	4.5 x 7 x 2.5	* .25	.19	.15	
33524CE	TM.33	.33µF	35	4.5 x 7 x 2.5	* .25	.19	.15	
332128CE	TDR0.33/50	.33µF	50	4.5 x 7 x 2.5	.39	.351	.227	.18
33532CE	TM.47	.47µF	35	4.5 x 7 x 2.5	* .20	.15	.14	
332136CE	TDR0.47/50	.47µF	50	4.5 x 7 x 2.5	.39	.351	.24	.18
61103CE	TM.68	.68µF	35	4.5 x 7 x 2.5	* .25	.19	.17	
154861CE	TM1/25	1µF	25	4.5 x 7 x 2.5	.32	.29	.25	.22
33663CE	TM1	1µF	35	4.5 x 7 x 2.5	.32	.29	.25	.22
332144CE	TDR1/50	1µF	50	8.0 x 5 x 2.5	.34	.30	.216	.203
94002CE	TM2.2/16	2.2µF	16	4.5 x 7 x 2.5	* .19	.16	.12	
33735CE	TM2.2/25	2.2µF	35	5 x 8 x 2.5	.39	.35	.29	.22
332152CE	TDR2.2/50	2.2µF	50	6.5 x 11 x 2.5	.66	.58	.429	.387
33770CE	TM3.3	3.3µF	35	5 x 8 x 2.5	.55	.36	.33	.31
94036CE	TM4.7/16	4.7µF	16	5 x 8 x 2.5	.47	.38	.28	.20

Part No.	Cross Ref. No. †	Value	Volt.	Size (mm) D x H x L.S.	Pricing			
					1	10	100	500
94044CE	TM4.7/25	4.7µF	25	5 x 8 x 2.5	.49	.44	.33	.20
33807CE	TM4.7	4.7µF	35	5.5 x 9.5 x 2.5	.45	.42	.37	.27
33874CE	TM6.8	6.8µF	35	6.5 x 11 x 2.5	.59	.45	.36	.32
94061CE	TM10/16	10µF	16	5 x 8 x 2.5	.45	.39	.29	.25
94079CE	TM10/25	10µF	25	5.5 x 9.5 x 2.5	.59	.50	.40	.36
33690CE	TM10	10µF	35	5.5 x 11 x 2.5	.89	.79	.69	.59
332161CE	TDR10/50	10µF	50	8.5 x 13 x 2.5	2.75	2.42	1.97	1.82
33719CE	TM15	15µF	25	6.5 x 11 x 2.5	.89	.80	.72	.61
33752CE	TM22	22µF	6.3	5.5 x 9.5 x 2.5	.45	.37	.26	.22
94095CE	TM22/16	22µF	16	5.5 x 9.5 x 2.5	.69	.59	.49	.45
332101CE	TDR22/35	22µF	35	8.5 x 13 x 2.5	1.95	1.70	1.16	1.08
33786CE	TM33	33µF	25	8.5 x 13 x 2.5	2.35	2.09	1.62	1.05
94124CE	TM47/16	47µF	16	6.5 x 11 x 2.5	1.69	1.55	1.35	.95
33823CE	TM47	47µF	25	9.5 x 16.5 x 2.5	3.39	3.05	2.35	1.85
332099CE	TDR68/25	68µF	25	9.5 x 16.5 x 2.5	6.45	5.57	3.03	2.82
33701CE	TM100	100µF	6.3	8.5 x 13 x 2.5	1.19	1.09	.95	.85

Quantity SAVE

Other Manufacturers — Great Deals*

33486CE	TM.1	.1µF	35	4.5 x 7	\$.23	\$.225	\$.171	\$.135
33507CE	TM.22	.22µF	35	4.5 x 7	* .265	.182	.137	
33523CE	TM.33	.33µF	35	4.5 x 7	* .225	.171	.135	
33531CE	TM.47	.47µF	35	4.5 x 7	* .18	.135	.126	
61102CE	TM.68	.68µF	35	4.5 x 7	* .25	.213	.159	
154860CE	TM1/25	1µF	25	4.5 x 7	.29	.261	.225	.198
33662CE	TM1	1µF	35	4.5 x 7	.29	.261	.225	.198
94001CE	TM2.2/16	2.2µF	16	4.5 x 7	.29	.24	.20	.15
94019CE	TM2.2/25	2.2µF	25	4.5 x 7	.30	.232	.186	.139
33734CE	TM2.2	2.2µF	35	5 x 8	.35	.315	.261	.198
33769CE	TM3.3	3.3µF	35	5 x 8	.50	.324	.297	.279
94035CE	TM4.7/16	4.7µF	16	5 x 8	.34	.272	.218	.163
94043CE	TM4.7/25	4.7µF	25	5 x 8	.44	.396	.297	.180

33806CE	TM4.7	4.7µF	35	5.5 x 9.5	\$.41	\$.378	\$.333	\$.243
33873CE	TM6.8	6.8µF	35	6.5 x 11	.53	.48	.38	.29
94060CE	TM10/16	10µF	16	5.0 x 8	.41	.351	.261	.225
94078CE	TM10/25	10µF	25	5.5 x 9.5	.53	.45	.36	.324
33689CE	TM10	10µF	35	6.5 x 11	.80	.71	.62	.53
33718CE	TM15	15µF	25	6.5 x 11	.80	.72	.65	.58
33751CE	TM22	22µF	6.3	5.5 x 9.5	.49	.44	.35	.26
94094CE	TM22/16	22µF	16	5.5 x 9.5	.62	.53	.441	.405
94107CE	TM22/25	22µF	25	8.5 x 13	1.59	1.45	.89	.79
33785CE	TM33	33µF	25	8.5 x 13	2.09	1.89	1.45	.95
94123CE	TM47/16	47µF	16	6.5 x 11	1.55	1.39	1.25	.86
33822CE	TM47	47µF	25	9.5 x 16.5	3.05	2.75	2.09	1.65
33700CE	TM100	100µF	6.3	8.5 x 13	1.09	.99	.86	.77

* Capacitor dimensions and styles may vary

Motor Capacitors

- Operating temperature: -25°C to +85°C
- Metal or plastic shell and double welding sheet metal
- Insulation resistance: >300MΩ
- Quick connect



Motor Running Capacitors

Part No.	Cross Ref. No.	Value	Volt.	Dimensions (mm) D x H	Pricing			
					1	10	100	500
332793CE	MRC370V2	2µF	370V	34 x 50	\$4.69	\$4.17	\$3.88	\$3.69
332806CE	MRC370V4	4µF	370V	34 x 50	5.05	4.80	4.33	3.90
332814CE	MRC370V5	5µF	370V	34 x 50	3.85	3.68	3.12	2.81
332822CE	MRC370V7R5	7.5µF	370V	36 x 80	5.89	3.96	3.38	3.04
332831CE	MRC370V10	10µF	370V	42 x 80	4.85	4.06	3.46	3.29
332849CE	MRC370V15	15µF	370V	40 x 70	6.05	5.07	4.38	4.16
332857CE	MRC370V25	25µF	370V	40 x 70	8.05	6.76	5.83	5.54
332865CE	MRC440V10	10µF	440V	40 x 70	6.49	5.47	4.72	4.48
332873CE	MRC440V20	20µF	440V	40 x 70	9.99	8.51	7.27	6.91

Motor Starting Capacitors

Part No.	Cross Ref. No.	Value	Volt.	Dimensions (mm) D x H	Pricing			
					1	10	100	500
332697CE	MSC125V21	21µF	125V	37 x 70	\$2.35	\$2.23	\$2.12	\$2.01
332700CE	MSC125V124	124µF	125V	37 x 70	2.75	2.61	2.48	2.36
332718CE	MSC125V161	161µF	125V	37 x 70	2.95	2.80	2.66	2.53
332726CE	MSC125V189	189µF	125V	37 x 70	3.09	2.94	2.79	2.65
332734CE	MSC125V216	216µF	125V	37 x 86	3.29	3.13	2.97	2.82
332742CE	MSC125V270	270µF	125V	37 x 86	3.59	3.41	3.24	3.08
332751CE	MSC125V590	590µF	125V	46 x 111	6.15	5.84	5.55	5.27
332769CE	MSC250V21	21µF	250V	37 x 70	2.95	2.80	2.66	2.53
332777CE	MSC250V30	30µF	250V	37 x 70	3.09	2.94	2.90	2.87
332785CE	MSC250V53	53µF	250V	46 x 86	3.85	3.25	3.02	2.87

6, 8, and 10-Pin Based Single-In-Line "SIP" Resistor Networks ($\pm 2\%$)

6-Pin Resistor Network, 4606X Series Value Equivalents

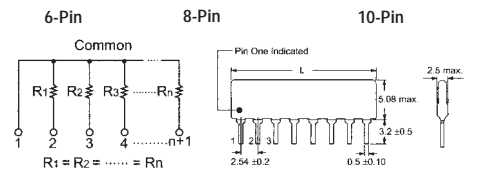
Part No.	Cross Ref. No.	Ohms	Part No.	Cross Ref. No.	Ohms	Part No.	Cross Ref. No.	Ohms
267098CE	4606X-101-100	10	267872CE	4606X-101-681	680	268082CE	4606X-101-223	22k
267670CE	4606X-101-220	22	267881CE	4606X-101-821	820	268091CE	4606X-101-273	27k
267688CE	4606X-101-270	27	267899CE	4606X-101-102	1.0k	268103CE	4606X-101-333	33k
267696CE	4606X-101-330	33	267901CE	4606X-101-122	1.2k	268111CE	4606X-101-393	39k
267709CE	4606X-101-390	39	267910CE	4606X-101-152	1.5k	268120CE	4606X-101-473	47k
267717CE	4606X-101-470	47	267928CE	4606X-101-182	1.8k	268138CE	4606X-101-563	56k
267725CE	4606X-101-510	51	267936CE	4606X-101-202	2.0k	268146CE	4606X-101-683	68k
267733CE	4606X-101-560	56	267944CE	4606X-101-222	2.2k	268154CE	4606X-101-823	82k
267741CE	4606X-101-680	68	267952CE	4606X-101-272	2.7k	268162CE	4606X-101-104	100k
267750CE	4606X-101-820	82	267961CE	4606X-101-332	3.3k	268171CE	4606X-101-124	120k
267768CE	4606X-101-101	100	267979CE	4606X-101-392	3.9k	268189CE	4606X-101-154	150k
267776CE	4606X-101-121	120	267987CE	4606X-101-472	4.7k	268197CE	4606X-101-184	180k
267784CE	4606X-101-151	150	267995CE	4606X-101-512	5.1k	268200CE	4606X-101-224	220k
267792CE	4606X-101-181	180	268007CE	4606X-101-562	5.6k	268218CE	4606X-101-274	270k
267805CE	4606X-101-221	220	268015CE	4606X-101-682	6.8k	268226CE	4606X-101-334	330k
267813CE	4606X-101-271	270	268023CE	4606X-101-822	8.2k	268234CE	4606X-101-394	390k
267821CE	4606X-101-331	330	268031CE	4606X-101-103	10k	268242CE	4606X-101-474	470k
267830CE	4606X-101-391	390	268040CE	4606X-101-123	12k	268251CE	4606X-101-564	560k
267848CE	4606X-101-471	470	268058CE	4606X-101-153	15k	268269CE	4606X-101-684	680k
267856CE	4606X-101-511	510	268066CE	4606X-101-183	18k	268277CE	4606X-101-824	820k
267864CE	4606X-101-561	560	268074CE	4606X-101-203	20k	268285CE	4606X-101-105	1.0M

8-Pin Resistor Network, 4608X Series Value Equivalents

Part No.	Cross Ref. No.	Ohms	Part No.	Cross Ref. No.	Ohms	Part No.	Cross Ref. No.	Ohms
267354CE	4608X-101-100	10	276066CE	4608X-101-681	680	276277CE	4608X-101-223	22k
275864CE	4608X-101-220	22	276074CE	4608X-101-821	820	276285CE	4608X-101-273	27k
275872CE	4608X-101-270	27	276082CE	4608X-101-102	1.0k	276293CE	4608X-101-333	33k
275881CE	4608X-101-330	33	276091CE	4608X-101-122	1.2k	276306CE	4608X-101-393	39k
275899CE	4608X-101-390	39	276103CE	4608X-101-152	1.5k	276315CE	4608X-101-473	47k
275901CE	4608X-101-470	47	276111CE	4608X-101-182	1.8k	276322CE	4608X-101-563	56k
275910CE	4608X-101-510	51	276120CE	4608X-101-202	2.0k	276331CE	4608X-101-683	68k
275928CE	4608X-101-560	56	276138CE	4608X-101-222	2.2k	276349CE	4608X-101-823	82k
275936CE	4608X-101-680	68	276146CE	4608X-101-272	2.7k	276357CE	4608X-101-104	100k
275944CE	4608X-101-820	82	276154CE	4608X-101-332	3.3k	276365CE	4608X-101-124	120k
275952CE	4608X-101-101	100	276162CE	4608X-101-392	3.9k	276373CE	4608X-101-154	150k
275961CE	4608X-101-121	120	276171CE	4608X-101-472	4.7k	276381CE	4608X-101-184	180k
275979CE	4608X-101-151	150	276189CE	4608X-101-512	5.1k	276390CE	4608X-101-224	220k
275987CE	4608X-101-181	180	276197CE	4608X-101-562	5.6k	276402CE	4608X-101-274	270k
275995CE	4608X-101-221	220	276200CE	4608X-101-682	6.8k	276411CE	4608X-101-334	330k
276007CE	4608X-101-271	270	276218CE	4608X-101-822	8.2k	276429CE	4608X-101-394	390k
276015CE	4608X-101-331	330	276226CE	4608X-101-103	10k	276437CE	4608X-101-474	470k
276023CE	4608X-101-391	390	276234CE	4608X-101-123	12k	276445CE	4608X-101-564	560k
276031CE	4608X-101-471	470	276242CE	4608X-101-153	15k	276453CE	4608X-101-684	680k
276040CE	4608X-101-511	510	276251CE	4608X-101-183	18k	276461CE	4608X-101-824	820k
276058CE	4608X-101-561	560	276269CE	4608X-101-203	20k	276470CE	4608X-101-105	1.0M

10-Pin Resistor Network, 4610X Series Value Equivalents

Part No.	Cross Ref. No.	Ohms	Part No.	Cross Ref. No.	Ohms	Part No.	Cross Ref. No.	Ohms
267418CE	4610X-101-100	10	280786CE	4610X-101-681	680	280997CE	4610X-101-223	22k
280583CE	4610X-101-220	22	280794CE	4610X-101-821	820	281009CE	4610X-101-273	27k
280591CE	4610X-101-270	27	280807CE	4610X-101-102	1.0k	281017CE	4610X-101-333	33k
280604CE	4610X-101-330	33	280815CE	4610X-101-122	1.2k	281025CE	4610X-101-393	39k
280612CE	4610X-101-390	39	280823CE	4610X-101-152	1.5k	281033CE	4610X-101-473	47k
280621CE	4610X-101-470	47	280831CE	4610X-101-182	1.8k	281041CE	4610X-101-563	56k
280639CE	4610X-101-510	51	280840CE	4610X-101-202	2.0k	281050CE	4610X-101-683	68k
280647CE	4610X-101-560	56	280858CE	4610X-101-222	2.2k	281068CE	4610X-101-823	82k
280655CE	4610X-101-680	68	280866CE	4610X-101-272	2.7k	281076CE	4610X-101-104	100k
280663CE	4610X-101-820	82	280874CE	4610X-101-332	3.3k	281084CE	4610X-101-124	120k
280671CE	4610X-101-101	100	280882CE	4610X-101-392	3.9k	281092CE	4610X-101-154	150k
280680CE	4610X-101-121	120	280891CE	4610X-101-472	4.7k	281105CE	4610X-101-184	180k
280698CE	4610X-101-151	150	280903CE	4610X-101-512	5.1k	281113CE	4610X-101-224	220k
280701CE	4610X-101-181	180	280911CE	4610X-101-562	5.6k	281121CE	4610X-101-274	270k
280719CE	4610X-101-221	220	280920CE	4610X-101-682	6.8k	281130CE	4610X-101-334	330k
280727CE	4610X-101-271	270	280938CE	4610X-101-822	8.2k	281148CE	4610X-101-394	390k
280735CE	4610X-101-331	330	280947CE	4610X-101-103	10k	281156CE	4610X-101-474	470k
280743CE	4610X-101-391	390	280954CE	4610X-101-123	12k	281164CE	4610X-101-564	560k
280751CE	4610X-101-471	470	280962CE	4610X-101-153	15k	281172CE	4610X-101-684	680k
280760CE	4610X-101-511	510	280971CE	4610X-101-183	18k	281181CE	4610X-101-824	820k
280778CE	4610X-101-561	560	280989CE	4610X-101-203	20k	281199CE	4610X-101-105	1.0M



- Miniature, high density packaging
- Operating temperature range: -55°C to +125°C
- Temperature coefficient range: $\pm 100 \text{ ppm}/^\circ\text{C}$: $50\Omega - 1.0\text{M}\Omega$; $\pm 250 \text{ ppm}/^\circ\text{C}$: $< 50\Omega$ or $> 1.0\text{M}$
- Rating ambient temperature: +70°C
- Wattage/element: 1/8 Watt
- Max. working voltage: 100V
- Prepackaged: order in increments of 10, 100, 500 or 1000

6-Pin Resistor Network Pricing

Qty.	10	100	500	1000
Price	\$.14	\$.085	\$.076	\$.071

8-Pin Resistor Network Pricing

Qty.	10	100	500	1000
Price	\$.19	\$.122	\$.114	\$.105

10-Pin Resistor Network Pricing

Qty.	10	100	500	1000
Price	\$.23	\$.16	\$.14	\$.13

0805 Resistor Assortment ($\pm 5\%$)
144 Values, 50 pcs. each; 7,200 Pieces Total

Resistance Value Chart:

1.2	10	75	430	2.0k	10k	51k	270k	2.2M
1.6	16	85	470	2.2k	11k	56k	300k	2.4M
2.2	18	91	510	2.4k	12k	62k	360k	2.7M
2.4	20	110	560	2.7k	13k	68k	390k	3.0M
2.7	22	120	620	3.0k	15k	75k	430k	3.3M
3.0	24	130	680	3.3k	16k	82k	470k	3.6M
3.3	27	150	750	3.6k	18k	91k	510k	3.9M
3.6	30	160	820	3.9k	20k	100k	560k	4.3M
4.0	33	180	910	4.3k	22k	110k	620k	4.7M
4.3	36	200	1.0k	4.7k	24k	120k	750k	5.1M
4.7	40	220	1.1k	5.1k	27k	150k	820k	5.6M
5.1	43	240	1.2k	5.6k	30k	160k	910k	6.2M
5.6	47	270	1.3k	6.2k	33k	180k	1.0M	7.5M
6.2	51	300	1.5k	6.8k	36k	200k	1.1M	8.2M
6.8	56	330	1.6k	7.5k	39k	220k	1.2M	9.1M
7.5	62	360	1.8k	8.2k	43k	240k	2.0M	10M
8.2	68	390	2.0k	9.1k	47k	270k	2.2M	11M

- Size (mm): 2.0L x 1.25W x 0.5Thick
- Max. overload voltage: 200V
- 1/8 watts
- Operating temperature: -50°C to 120°C
- Case size (two cases): 10.5"L x 6.7"W x 1.7"T
- Weight: 1.9 lbs.

Includes: Case with labels

Part No.	Cross Ref. No.	1	10	25
172806CE	16-500	\$79.95	\$71.95	\$64.79

1206 Resistor Assortment ($\pm 1\%$)
56 Values, 200 pcs. each; 11,200 pcs. Total

Value Chart (Ohms)

10	200	3.92k	75k
12.1	243	4.99k	90.9k
15	301	6.19k	100k
20	392	7.5k	121k
24.3	499	9.09k	150k
30.1	619	10k	200k
39.2	750	12.1k	243k
49.9	909	15k	301k
61.9	1k	20k	392k
75	1.21k	24.3k	499k
90.9	1.5k	30.1k	619k
100	2k	39.2k	750k
121	2.43k	49.9k	909k
150	3.01k	61.9k	1M

Package in strips of 200 pcs. each

- Max. working voltage: 200V
- Power: 1/8W
- Operating temperature: -55°C to +125°C
- Temp. coefficient: $\pm 100 \text{ ppm}/^\circ\text{C}$
- Resistor dimensions (mm): 3.10L x 1.5 W x 0.55H

Part No.	Cross Ref. No.	1	10	25
156881CE	SMR1206SB	\$99.99	\$89.99	\$79.99

1/2-Watt Linear Taper (±10%)

- Temperature range: -55°C to +125°C
- Non-rotational key
- Non-slotted shaft end
- Mounting hole: 0.3125"
- Shaft diameter: 0.25"
- Shaft length: 0.50"
- Maximum panel thickness: 0.1875"

EXCLUSIVE



29081CE

Includes: Mounting hardware

Qty.	1	10	100	500
Price	\$.99	\$.79	\$.65	\$.55

Part No.	Cross Ref. No.	Ohms	Part No.	Cross Ref. No.	Ohms
29049CE	P1K	1k	29102CE	P100K	100k
29196CE	P5K	5k	29065CE	P1MEG	1M
29081CE	P10K	10k			

1/2-Watt 24mm Linear Taper (±20%)



255476CE



264372CE



255610CE

- Maximum voltage: 500V
- Rotational angle: 300° (±5°)
- Withstanding voltage for 1 minute: 500VAC

0.335" L shaft; solder lugs

Qty.	1	10	100	500
Price	\$1.19	\$.91	\$.83	\$.76

Part No.	Product No.	Ohms
255476CE	RV24A-10-15R1-B500	500
255484CE	RV24A-10-15R1-B1K	1k
255492CE	RV24A-10-15R1-B2K	2k
255505CE	RV21A-10-15R1-B2.5K	2.5k
255513CE	RV24A-10-15R1-B5K	5k
255521CE	RV24A-10-15R1-B10K	10k
255530CE	RV24A-10-15R1-B25K	25k
255548CE	RV24A-10-15R1-B50K	50k
255556CE	RV24A-10-15R1-B100K	100k
255564CE	RV24A-10-15R1-B250K	250k
255572CE	RV24A-10-15R1-B500K	500k
255581CE	RV24A-10-15R1-B1M	1M
255599CE	RV24A-10-15R1-B2M	2M
255601CE	RV24A-10-15R1-B5M	5M

0.531" L knurled shaft; solder lugs

Qty.	1	10	100	500
Price	\$1.19	\$.91	\$.83	\$.76

Part No.	Product No.	Ohms
264372CE	RV24A-10-20K-B500	500
264381CE	RV24A-10-20K-B1K	1k
264399CE	RV24A-10-20K-B2K	2k
264401CE	RV24A-10-20K-B5K	5k
264410CE	RV24A-10-20K-B10K	10k
264428CE	RV24A-10-20K-B50K	50k
264436CE	RV24A-10-20K-B100K	100k
264444CE	RV24A-10-20K-B250K	250k
264452CE	RV24A-10-20K-B500K	500k
264461CE	RV24A-10-20K-B1M	1M
264479CE	RV24A-10-20K-B2M	2M

1.32" L shaft; solder lugs

Qty.	1	10	100	500
Price	\$1.15	\$.95	\$.86	\$.79

Part No.	Product No.	Ohms
255610CE	RV24A-10-40R1-B500	500
255628CE	RV24A-10-40R1-B1K	1k
255636CE	RV24A-10-40R1-B2K	2k
255644CE	RV24A-10-40R1-B2.5K	2.5k
255652CE	RV24A-10-40R1-B5K	5k
255661CE	RV24A-10-40R1-B10K	10k
255679CE	RV24A-10-40R1-B25K	25k
255687CE	RV24A-10-40R1-B50K	50k
255695CE	RV24A-10-40R1-B100K	100k
255708CE	RV24A-10-40R1-B250K	250k
255716CE	RV24A-10-40R1-B500K	500k
255724CE	RV24A-10-40R1-B1M	1M
255732CE	RV24A-10-40R1-B5M	5M

1/2-Watt 24mm Linear Taper with SPST Switch (±20%)

- Shaft length: 0.335"
- Shaft diameter: .250"
- Terminal type: solder lugs
- Maximum voltage: 500V
- Switch rating: 125VAC, 1A
- Rotational angle: 300° (±5°)



263759CE

Qty.	1	10	100	500
Price	\$1.59	\$1.36	\$1.24	\$1.13

Part No.	Product No.	Ohms
263759CE	RV24A01-10-15R1-B500	500
263767CE	RV24A01-10-15R1-B1K	1k
263775CE	RV24A01-10-15R1-B2.5K	2.5k
263783CE	RV24A01-10-15R1-B5K	5k
263791CE	RV24A01-10-15R1-B10K	10k
263804CE	RV24A01-10-15R1-B25K	25k
263812CE	RV24A01-10-15R1-B50K	50k
263821CE	RV24A01-10-15R1-B100K	100k
263839CE	RV24A01-10-15R1-B250K	250k
263847CE	RV24A01-10-15R1-B500K	500k
263855CE	RV24A01-10-15R1-B1M	1M

1/4-Watt 24mm Audio Taper (±20%)

- Shaft length: 0.335"
- Maximum voltage: 250V
- Shaft diameter: .250"
- Terminal type: solder lugs
- Insulation resistance: >100MΩ @ 500VDC
- Rotational angle: 300° (±5°)



255396CE

Qty.	1	10	100	500
Price	\$1.19	\$.91	\$.83	\$.76

Part No.	Product No.	Ohms
255396CE	RV24A-10-15R1-A1K	1k
255417CE	RV24A-10-15R1-A5K	5k
255425CE	RV24A-10-15R1-A10K	10k
255433CE	RV24A-10-15R1-A50K	50k
255441CE	RV24A-10-15R1-A100K	100k
255450CE	RV24A-10-15R1-A500K	500k
255468CE	RV24A-10-15R1-A1M	1M

1/4-Watt 24mm Audio Taper with SPST Switch (±20%)

- Shaft length: 0.590"
- Voltage rating: 250V
- Shaft diameter: .250"
- Switch rating: 125VAC, 1A
- Rotational angle: 300° (±5°)



263601CE

Qty.	1	10	100	500
Price	\$1.59	\$1.36	\$1.24	\$1.13

Part No.	Product No.	Ohms
263601CE	RV24A01-10-15R1-A1K	1k
263610CE	RV24A01-10-15R1-A5K	5k
263636CE	RV24A01-10-15R1-A10K	10k
263644CE	RV24A01-10-15R1-A50K	50k
263652CE	RV24A01-10-15R1-A100K	100k
263661CE	RV24A01-10-15R1-A500K	500k
263679CE	RV24A01-10-15R1-A1M	1M

Commercial Customers

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Instrumentation Knobs
See page 164



Potentiometers – 16mm Linear and Audio Taper



1/5-Watt 16mm Linear Taper (±20%)

- Shaft Length: 0.335" L
- Rated voltage: 200V
- Shaft diameter: .250"
- Total rotation angle: 300° (±5°)
- Rotation life: 15,000 cycles
- Center detent
- Insulation resistance: >100MΩ @ 500VDC
- Withstanding voltage: 500VAC for 1 minute



286352CE

Qty.	1	10	100	500
Price	\$1.35	\$1.13	\$1.04	\$.94

Part No.	Product No.	Ohms
286352CE	RV16A-10-15R1-B1K-OC	1k
286361CE	RV16A-10-15R1-B2K-OC	2k
286379CE	RV16A-10-15R1-B5K-OC	5k
286387CE	RV16A-10-15R1-B10K-OC	10k
286395CE	RV16A-10-15R1-B25K-OC	25k
286408CE	RV16A-10-15R1-B50K-OC	50k
286416CE	RV16A-10-15R1-B100K-OC	100k
286424CE	RV16A-10-15R1-B250K-OC	250k
286432CE	RV16A-10-15R1-B500K-OC	500k
286441CE	RV16A-10-15R1-B1M-OC	1M



1/5-Watt 16mm Linear Taper (±20%)

- Shaft Length: 0.335"
- Rated voltage: 200V
- Shaft diameter: .250"
- Rotational angle: 300° (±5°)
- Insulation resistance: >100MΩ @ 500VDC
- 11-detent position
- Withstanding voltage: 500VAC, 1 minute



286459CE

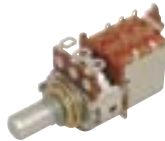
Qty.	1	10	100	500
Price	\$1.65	\$1.38	\$1.25	\$1.13

Part No.	Product No.	Ohms
286459CE	RV16A-10-15R1-B1K-OD	1k
286467CE	RV16A-10-15R1-B2K-OD	2k
286475CE	RV16A-10-15R1-B5K-OD	5k
286483CE	RV16A-10-15R1-B10K-OD	10k
286491CE	RV16A-10-15R1-B25K-OD	25k
286504CE	RV16A-10-15R1-B50K-OD	50k
286512CE	RV16A-10-15R1-B100K-OD	100k
286521CE	RV16A-10-15R1-B250K-OD	250k
286539CE	RV16A-10-15R1-B500K-OD	500k
286547CE	RV16A-10-15R1-B1M-OD	1M



1/5-Watt 16mm Linear Taper with DPDT Switch (±20%)

- Shaft length: 0.335"
- Rated voltage: 200V
- Shaft diameter: .250"
- Terminal type: solder lugs
- Switch rating: 0.3A; 30VDC
- Rotation angle: 300° (±5°)
- Rotation life: 15,000 cycles
- Switch life: 10,000 times
- Insulation resistance: >100MΩ @ 500VDC
- Dielectric strength: 500VAC for 1 minute



286660CE

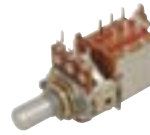
Qty.	1	10	100	500
Price	\$3.55	\$2.96	\$2.70	\$2.45

Part No.	Product No.	Ohms
286660CE	RV16B-10-15R1-B1K	1k
286678CE	RV16B-10-15R1-B5K	5k
286686CE	RV16B-10-15R1-B10K	10k
286694CE	RV16B-10-15R1-B50K	50k
286707CE	RV16B-10-15R1-B100K	100k



1/5-Watt 16mm Linear Taper with DPDT Switch (±20%)

- Shaft length: 0.335"
- Rated voltage: 200V
- Shaft diameter: .250"
- Terminal type: PC terminals (horizontal)
- Switch rating: 0.3A; 30VDC
- Rotation angle: 300° (±5°)
- Rotation life: 15,000 cycles
- Switch life: 10,000 times
- Insulation resistance: >100MΩ @ 500VDC
- Dielectric strength: 500VAC for 1 minute



286740CE

Qty.	1	10	100	500
Price	\$3.55	\$2.96	\$2.70	\$2.45

Part No.	Product No.	Ohms
286731CE	RV16B-20-15R1-B10K	10k
286740CE	RV16B-20-15R1-B50K	50k
286758CE	RV16B-20-15R1-B100K	100k



1/5-Watt 16mm Linear Taper (±20%)

- Shaft Length: 0.335"
- Rated voltage: 200V
- Shaft diameter: .250"
- Rotation angle: 300° (±5°)
- Rotational life: 15,000 cycles
- Insulation resistance: >100MΩ @ 500VDC
- Withstanding voltage: 500VAC for 1 minute



286256CE

Qty.	1	10	100	500
Price	\$1.15	\$1.00	\$.87	\$.80

Part No.	Product No.	Ohms
286248CE	RV16A-10-15R1-B1K	1k
286256CE	RV16A-10-15R1-B2K	2k
286264CE	RV16A-10-15R1-B5K	5k
286272CE	RV16A-10-15R1-B10K	10k
286281CE	RV16A-10-15R1-B25K	25k
286299CE	RV16A-10-15R1-B50K	50k
286301CE	RV16A-10-15R1-B100K	100k
286310CE	RV16A-10-15R1-B250K	250k
286328CE	RV16A-10-15R1-B500K	500k
286336CE	RV16A-10-15R1-B1M	1M
286344CE	RV16A-10-15R1-B1.2M	1.2M



1/5-Watt 16mm Linear Taper with SPST Switch (±20%)

- Shaft Length: 0.374"
- Rated voltage: 200V
- Shaft diameter: .250"
- Terminal type: PC terminal (vertical; back)
- Total rotation angle: 270° (±5°)
- Rotation life: 100,000 cycles
- Switch life: 10,000 times
- Insulation resistance: >100MΩ @ 500VDC
- Switch contact resistance: <100mΩ
- Switch rating: 250VAC 10A



286766CE

Qty.	1	10	100	500
Price	\$2.25	\$1.90	\$1.73	\$1.57

Part No.	Product No.	Ohms
286766CE	RV16C-40-16F1-B5K	5k
286774CE	RV16C-40-16F1-B10K	10k
286782CE	RV16C-40-16F1-B50K	50k
286791CE	RV16C-40-16F1-B500K	500k



1/8-Watt 16mm Linear Taper

- Shaft length: 0.531"
- Rated voltage: 200V
- Shaft diameter: .250"
- Rotational angle: 300° (±5°)
- Rotation life: 15,000 cycles
- Rotational noise: 47mV
- Insulation resistance: >100MΩ @ 500VDC
- Tolerance: <1MΩ (±20%); ≥1MΩ (±30%)
- Dielectric strength: 500VAC for 1 minute



286061CE

Qty.	1	10	100	500
Price	\$1.19	\$1.00	\$.83	\$.70

Part No.	Product No.	Ohms
286061CE	RV16A-10-20R1-B1K	1k
286184CE	RV16A-10-20R1-B2K	2k
286192CE	RV16A-10-20R1-B5K	5k
286205CE	RV16A-10-20R1-B10K	10k
286213CE	RV16A-10-20R1-B50K	50k
286854CE	RV16A-10-20R1-B100K	100k
286221CE	RV16A-10-20R1-B500K	500k
286230CE	RV16A-10-20R1-B1M	1M



1/8-Watt 16mm Linear Taper with SPST Switch (±20%)

- Shaft Length: 0.335"
- Shaft diameter: .250"
- Terminal type: solder lugs double row
- Rated voltage: 200V
- Total rotation angle: 300° (±5°)
- Rotation life: 15,000 cycles
- Insulation resistance: >100MΩ @ 500VDC
- Withstanding voltage: 500VAC for 1 minute
- Switch contact resistance: 20mΩ
- Switch rating: 12VDC/1A



286598CE

Qty.	1	10	100	500
Price	\$1.95	\$1.62	\$1.47	\$1.34

Part No.	Product No.	Ohms
286598CE	RV16A03-10-15R1-B1K	1k
286601CE	RV16A03-10-15R1-B5K	5k
286619CE	RV16A03-10-15R1-B10K	10k
286627CE	RV16A03-10-15R1-B50K	50k
286635CE	RV16A03-10-15R1-B100K	100k
286643CE	RV16A03-10-15R1-B500K	500k
286651CE	RV16A03-10-15R1-B1M	1M



1/10-Watt 16mm Audio Taper (±20%)

- Shaft length: 0.335"
- Rated voltage: 200V
- Shaft diameter: .250"
- Rotational angle: 300° (±5°)
- Rotational life: 15,000 cycles
- Rotational noise: 47mV
- Insulation resistance: >100MΩ @ 500VDC
- Withstanding voltage: 500VAC for 1 minute
- 11-detent positions



286555CE

Qty.	1	10	100	500
Price	\$1.65	\$1.38	\$1.25	\$1.13

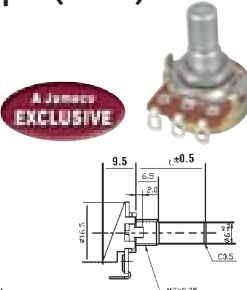
Part No.	Product No.	Ohms
286555CE	RV16A-10-15R1-A10K-OD	10k
286563CE	RV16A-10-15R1-A50K-OD	50k
286571CE	RV16A-10-15R1-A100K-OD	100k
286580CE	RV16A-10-15R1-A1M-OD	1M

1/5-Watt 16mm Linear Taper (±20%)

- Insulation resistance: 100MΩ @ 500VDC
- Number of detents: 10
- Maximum panel thickness: 0.15"
- Shaft length: 0.605"
- Maximum operating voltage: 150VAC
- Shaft diameter: 0.235"
- Rotational life: 15,000 cycles
- Mounting hole: 0.27"

Includes: Mounting hardware

Part No.	Cross Ref. No.	Ohms	1	10	100	500
163563CE	PMD401	10k	\$1.65	\$1.49	\$1.35	\$1.09



2-Watt Linear Taper Wire Wound (±20%)

- Temp. range: -10°C to +70°C
- Shaft diameter: 0.25"
- Mounting hole: 0.375"
- Non-rotational key
- Length: 0.825"
- Base length: 0.25"

Includes: Mounting hardware

Part No.	Cross Ref. No.	Ohms	1	10	100	500
123959CE	PT1K	1k	\$3.29	\$2.99	\$2.65	\$2.39
123967CE	PT5K	5k	3.29	2.99	2.65	2.39



5-Watt Linear Taper Wire Wound (±20%)

- Temp. range: -10°C to 70°C
- Shaft diameter: 0.23" (6mm)
- Shaft length: 0.67", except P/N 140521CE (0.25")
- Non-rotational key
- Mounting hole: 0.32"
- Maximum panel thickness: 0.1"

Includes: Mounting hardware

Part No.	Cross Ref. No.	Ohms	1	10	50	100
140513CE	PW5B100	100	\$2.79	\$2.35	\$2.25	\$2.10
140521CE	PW5B500	500	2.79	2.35	2.25	2.10



2-Watt Linear Taper Wire Wound (10-turn)

- Resistance tolerance: ±10%
- 10-turn; wirewound
- Load life: 1000 hours, 2W
- Insulation resistance: (500VDC) 1000MΩ minimum
- Absolute minimum resistance: 1Ω or 0.1% maximum

Part No.	Product No.	Ohms	1	10	50
183548CE	3540S-1-502	5k	\$12.79	\$12.35	\$12.26
183521CE	3540S-1-103	10k	12.79	12.35	12.26



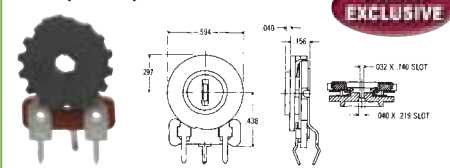
Potentiometer Component Kits

See page 86.



1/4-Watt Miniature Linear (±20%)

X201 (19/32") Vertical Mount



- 15mm thick
- Power rating: below 5kΩ – 1/4 watt @ 40°C
5kΩ & above – 1/4 watt @ 55°C
- Total rotation: 260° ±5°
- Voltage rating: 350 VDC

Cross Reference Chart

Equivalent to:
CTS X201R
Bourns 3355X
PIHER PT15

Qty.	1	10	100	500
Price	\$.45	\$.39	\$.35	\$.29

Part No.	Cross Ref. No.	Ohms	Part No.	Cross Ref. No.	Ohms
94692CE	X201R1K	1k	172136CE	X201R25K	25k
35502CE	X201R252B	2.5k	94721CE	X201R50K	50k
94705CE	X201R5K	5k	94730CE	X201R100K	100k
94713CE	X201R10K	10k			

1/2-Watt Trimming Potentiometers (±10%)

3362P Series

- Linear taper
- Insulation resistance: 500VDC 1,000MΩ minimum
- Absolute minimum resistance: 1% or 2Ω maximum
- Contact resistance variation: 1% or 3Ω maximum
- Rotational life: 200 cycles
- Terminals: solderable pins
- Top adjustment: 240° nominal
- Wiper positioning: 50% nominal

Cross Reference Chart

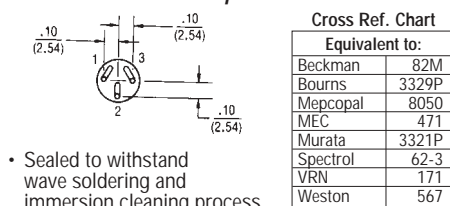
Equivalent to:
Bourns 3362P
Copal CT-6P
Murata PVC6
Vishay 76

Qty.	1	10	100	500
Price	\$.69	\$.62	\$.47	\$.42

Part No.	Cross Ref. No.	Ohms	Part No.	Cross Ref. No.	Ohms
191644CE	3362P-200	20	182836CE	3362P-103	10k
189341CE	3362P-500	50	182844CE	3362P-204	200k
182810CE	3362P-501	500	182852CE	3362P-105	1M
182828CE	3362P-502	5k			

1/2-Watt, 1/4" Round, Cermet (±10%)

3329P Series Value Equivalents



- Sealed to withstand wave soldering and immersion cleaning process
- Extended temperature range: -55°C to +150°C
- TO-5 grid
- Top adjustment
- Terminals: solderable pins

Cross Ref. Chart

Equivalent to:
Beckman 82M
Bourns 3329P
Mepcopal 8050
MEC 471
Murata 3321P
Spectrol 62-3
VRN 171
Weston 567

Qty.	1	10	100	500
Price	\$1.89	\$1.59	\$1.29	\$1.19

Part No.	Cross Ref. No.	Ohms	Part No.	Cross Ref. No.	Ohms
95441CE	3329P-102	1k	96719CE	3329P-103	10k
95450CE	3329P-502	5k	95484CE	3329P-104	100k

1/2-Watt, 3/8" Square, Single-Turn Cermet (±10%)

- Top adjustment
- 1/2 watt linear taper @ 70°C
- PC pins: .100" grid (2.54mm)
- Temperature range: -55°C to +125°C
- Sealed to guard against contaminants
- Pin spacing: 0.1" (P/N 43060CE and P/N 105216CE: 0.2")



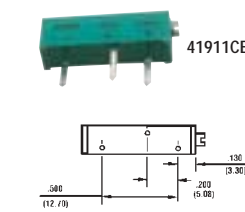
Cross Ref. Chart

Equivalent to:
Allen Bradley E2B
Beckman 72PR
Bourns 3386P
Mepcopal 8038
Murata 3104P
Spectrol 63P
VRN 780-12P
Weston 840P

Quantity SAVE

Part No.	Cross Ref. No.	Ohms	1	10	100	500
43123CE	63P500	500	\$.85	\$.79	\$.69	\$.49
42964CE	63P1K	1k	.85	.79	.69	.49
43043CE	63P2K	2k	.85	.79	.69	.49
43078CE	63P5K	5k	.85	.79	.69	.49
43001CE	63P10K	10k	.85	.79	.69	.49
43051CE	63P20K	20k	.85	.79	.69	.49
43107CE	63P50K	50k	.85	.79	.69	.49
43027CE	63P100K	100k	.85	.79	.69	.49
43060CE	63P300K	300k	.85	.79	.69	.49
63212CE	63P500K	500k	.85	.79	.69	.49
42981CE	63P1MEG	1M	.85	.79	.69	.49
105216CE	63P2MEG	2M	.85	.79	.69	.49

3/4-Watt, 3/4" Rectangular 15-Turn Linear Cermet (±10%)



Cross Ref. Chart

Equivalent to:
Allen Bradley 94P
Beckman 89PR
Bourns 3006P
Litton 6034Y
Mepcopal 8034
Murata 2101P
Spectrol 43P
VRN 961-20
Weston 830P

- PC pins: .100" grid (2.54mm)
- Side adjustment
- Temperature range: -55°C to +125°C
- Sealed to guard against contaminants

Qty.	1	10	100	500
Price	\$1.05	\$.99	\$.89	\$.75

Part No.	Cross Ref. No.	Ohms	Part No.	Cross Ref. No.	Ohms
181972CE	43P201	200	41873CE	43P20K	20k
41937CE	43P500	500	41911CE	43P50K	50k
41785CE	43P1K	1k	41849CE	43P100K	100k
41865CE	43P2K	2k	63001CE	43P200K	200k
41890CE	43P5K	5k	41953CE	43P500K	500k
41822CE	43P10K	10k	41806CE	43P1MEG	1M

We're Listening to What You Need!

Our goal is to provide you with more of what you want. Let us know how we can better serve your electronics needs. Please send your requests to

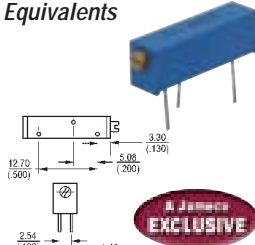
NewProducts@Jameco.com.

3/4-Watt, 3/4" Rectangular, 15-Turn Cermet Potentiometer Side Adjustment ($\pm 10\%$)

JAMECO
ValuePro

3006P Series Value Equivalents

- Low PC board profile
- Temperature range: -55°C to 125°C
- Absolute minimum resistance: 1% or 2 Ω
- Contact resistance variation: 1% or 1 Ω maximum
- Power rating: 0.75W @ 70°C (400V maximum)



Qty.	1	10	50	100
Price	\$1.25	\$1.15	\$.99	\$.89

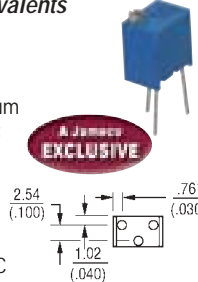
Part No.	Cross Ref No.	Ohms	Part No.	Cross Ref No.	Ohms
241234CE	3006P-101	100	241314CE	3006P-253	25k
241242CE	3006P-201	200	241322CE	3006P-503	50k
241251CE	3006P-501	500	241331CE	3006P-104	100k
241269CE	3006P-102	1k	241349CE	3006P-204	200k
241277CE	3006P-202	2k	241357CE	3006P-254	250k
241285CE	3006P-502	5k	241365CE	3006P-504	500k
241293CE	3006P-103	10k	241373CE	3006P-105	1M
241306CE	3006P-203	20k			

1/4-Watt, 1/4" Square Trimming Potentiometers, Top Adjustment ($\pm 10\%$)

JAMECO
ValuePro

3266W Series Value Equivalents

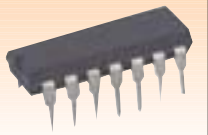
- Resistance tolerance: $\pm 10\%$
- 12 turns nominal
- Insulation resistance: (500VDC) 1,000M Ω minimum
- Contact resistance variation: 3% or 3 Ω maximum (whichever is greater)
- Absolute min. resistance: 1% or 2 Ω maximum (whichever is greater)
- Power rating: 0.25W @ 70°C (300V maximum)



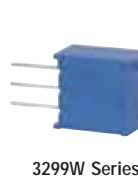
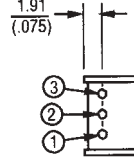
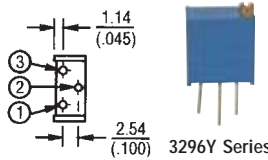
Qty.	1	10	50	100
Price	\$2.29	\$1.99	\$1.93	\$1.83

Part No.	Cross Ref No.	Ohms	Part No.	Cross Ref No.	Ohms
254609CE	3266W-500	50	254684CE	3266W-203	20k
254617CE	3266W-101	100	254692CE	3266W-253	25k
254625CE	3266W-201	200	254705CE	3266W-503	50k
254633CE	3266W-501	500	254713CE	3266W-104	100k
254641CE	3266W-102	1k	254721CE	3266W-204	200k
254650CE	3266W-202	2k	254730CE	3266W-504	500k
254668CE	3266W-502	5k	254748CE	3266W-105	1M
254676CE	3266W-103	10k			

See page 45 for
Digital
Potentiometers.



1/2-Watt, 3/8" Square, Multi-Turn Trimming Potentiometers, Top Adjustment ($\pm 10\%$)



3296Y, 3299W, and 3299Y Series

- Resistance tolerance: $\pm 10\%$
- Insulation resistance: (500VDC) 1000M Ω min.
- Absolute minimum resistance: 1% or 2 Ω max.

- 25 turns nominal
- Contact resistance variation: 1% or 3 Ω max.
- Power rating: 0.5W @ 70°C (300V max.)

Attention Budget-Minded Buyers!

Jameco now offers high-quality Bourns® equivalents below, and they're priced to save you money. You'll get consistent form, fit and function, without paying the added surcharge for brand name components.

JAMECO ValuePro 3296Y – Y Layout Solder Pins

Qty.	1	10	50	100
Price	\$1.69	\$1.56	\$1.42	\$1.28

Part No.	Cross Ref No.	Ohms	Part No.	Cross Ref No.	Ohms
240696CE	3296Y-100	10	240784CE	3296Y-103	10k
240709CE	3296Y-200	20	240792CE	3296Y-203	20k
240717CE	3296Y-500	50	240805CE	3296Y-253	25k
240725CE	3296Y-101	100	240813CE	3296Y-503	50k
240733CE	3296Y-201	200	240821CE	3296Y-104	100k
240741CE	3296Y-501	500	240830CE	3296Y-254	250k
240750CE	3296Y-102	1k	240848CE	3296Y-504	500k
240768CE	3296Y-202	2k	240856CE	3296Y-105	1M
240776CE	3296Y-502	5k	240864CE	3296Y-205	2M

JAMECO ValuePro 3299W – In-Line Solder Pins

Qty.	1	10	50	100
Price	\$1.99	\$1.82	\$1.53	\$1.35

Part No.	Cross Ref No.	Ohms	Part No.	Cross Ref No.	Ohms
241058CE	3299W-100	10	241146CE	3299W-103	10k
241066CE	3299W-200	20	241154CE	3299W-203	20k
241074CE	3299W-500	50	241162CE	3299W-253	25k
241082CE	3299W-101	100	241171CE	3299W-503	50k
241091CE	3299W-201	200	241189CE	3299W-104	100k
241103CE	3299W-501	500	241197CE	3299W-254	250k
241111CE	3299W-102	1k	241200CE	3299W-504	500k
241120CE	3299W-202	2k	241218CE	3299W-105	1M
241138CE	3299W-502	5k	241226CE	3299W-205	2M

JAMECO ValuePro 3299Y – Y Layout Solder Pins

Qty.	1	10	50	100
Price	\$1.99	\$1.82	\$1.53	\$1.35

Part No.	Cross Ref No.	Ohms	Part No.	Cross Ref No.	Ohms
240872CE	3299Y-100	10	240961CE	3299Y-103	10k
240881CE	3299Y-200	20	240979CE	3299Y-203	20k
240899CE	3299Y-500	50	240987CE	3299Y-253	25k
240901CE	3299Y-101	100	240995CE	3299Y-503	50k
240910CE	3299Y-201	200	241009CE	3299Y-104	100k
191417CE	3299Y-501	500	241015CE	3299Y-254	250k
191396CE	3299Y-102	1k	241023CE	3299Y-504	500k
240944CE	3299Y-202	2k	241031CE	3299Y-105	1M
191425CE	3299Y-502	5k	241040CE	3299Y-205	2M

Bourns® Potentiometers

Jameco now offers a broad selection of industry-renowned Bourns multi-turn potentiometers below. They're ideal for integration into devices requiring high-precision pots.

BOURNS 3296Y – Y Layout Solder Pins

Qty.	1	10	50	100
Price	\$1.99	\$1.85	\$1.66	\$1.49

Part No.	Product No.	Ohms	Part No.	Product No.	Ohms
240338CE	3296Y-1-100	10	240426CE	3296Y-1-103	10k
240346CE	3296Y-1-200	20	240434CE	3296Y-1-203	20k
240354CE	3296Y-1-500	50	240442CE	3296Y-1-253	25k
240362CE	3296Y-1-101	100	240451CE	3296Y-1-503	50k
240371CE	3296Y-1-201	200	240469CE	3296Y-1-104	100k
240389CE	3296Y-1-501	500	240477CE	3296Y-1-254	250k
240397CE	3296Y-1-102	1k	240485CE	3296Y-1-504	500k
240400CE	3296Y-1-202	2k	240493CE	3296Y-1-105	1M
240418CE	3296Y-1-502	5k	240506CE	3296Y-1-205	2M

BOURNS 3299W – In-Line Solder Pins

Qty.	1	10	50	100
Price	\$2.39	\$2.25	\$1.99	\$1.79

Part No.	Product No.	Ohms	Part No.	Product No.	Ohms
238553CE	3299W-1-100	10	183564CE	3299W-1-103	10k
238561CE	3299W-1-200	20	238633CE	3299W-1-203	20k
238570CE	3299W-1-500	50	238641CE	3299W-1-253	25k
238588CE	3299W-1-101	100	238650CE	3299W-1-503	50k
238596CE	3299W-1-201	200	183572CE	3299W-1-104	100k
238609CE	3299W-1-501	500	238668CE	3299W-1-254	250k
183556CE	3299W-1-102	1k	238676CE	3299W-1-504	500k
238617CE	3299W-1-202	2k	238684CE	3299W-1-105	1M
238625CE	3299W-1-502	5k	238692CE	3299W-1-205	2M

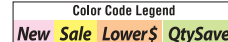
BOURNS 3299Y – Y Layout Solder Pins

Qty.	1	10	50	100
Price	\$2.39	\$2.19	\$1.79	\$1.59

Part No.	Product No.	Ohms	Part No.	Product No.	Ohms
240514CE	3299Y-1-100	10	240602CE	3299Y-1-103	10k
240522CE	3299Y-1-200	20	240611CE	3299Y-1-203	20k
240531CE	3299Y-1-500	50	240629CE	3299Y-1-253	25k
240549CE	3299Y-1-101	100	240637CE	3299Y-1-503	50k
240557CE	3299Y-1-201	200	240645CE	3299Y-1-104	100k
240565CE	3299Y-1-501	500	240653CE	3299Y-1-254	250k
240573CE	3299Y-1-102	1k	240661CE	3299Y-1-504	500k
240581CE	3299Y-1-202	2k	240670CE	3299Y-1-105	1M
240590CE	3299Y-1-502	5k	240688CE	3299Y-1-205	2M

Visit us on the web at www.Jameco.com

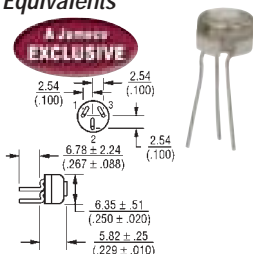
Potentiometers – Single-Turn



1/2-Watt, 1/4" Round, Cermet Potentiometers Top Adjustment ($\pm 10\%$)

3329P Series Value Equivalents

- Sealed to withstand wave soldering and immersion cleaning process
- Extended temperature range: -55°C to +150°C
- TO-5 grid
- Terminals: solderable pins



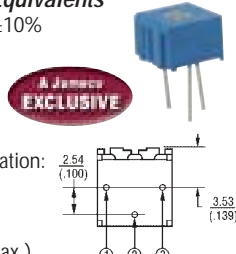
Qty.	1	10	50	100
Price	\$1.69	\$1.53	\$1.29	\$1.21

Part No.	Cross Ref No.	Ohms	Part No.	Cross Ref No.	Ohms
254457CE	3329P-500	50	254537CE	3329P-203	20k
254465CE	3329P-101	100	254545CE	3329P-253	25k
254473CE	3329P-201	200	254553CE	3329P-503	50k
254481CE	3329P-501	500	254561CE	3329P-104	100k
254490CE	3329P-102	1k	254570CE	3329P-204	200k
254502CE	3329P-202	2k	254588CE	3329P-504	500k
254511CE	3329P-502	5k	254596CE	3329P-105	1M
254529CE	3329P-103	10k			

1/2-Watt, 1/4" Square, Single-Turn Cermet Potentiometers Top Adjustment ($\pm 10\%$)

3362P Series Value Equivalents

- Resistance tolerance: $\pm 10\%$
- Insulation resistance: (500VDC) 1,000M Ω
- Absolute minimum resistance: 1 Ω or 2 Ω (whichever is greater)
- Contact resistance variation: 1 Ω or 3 Ω maximum (whichever is greater)
- Power rating: 0.5W @ 70°C (300V max.)



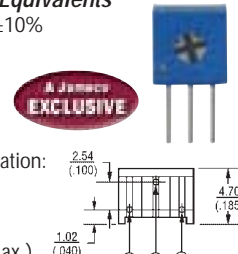
Qty.	1	10	50	100
Price	\$.59	\$.55	\$.45	\$.42

Part No.	Cross Ref No.	Ohms	Part No.	Cross Ref No.	Ohms
253964CE	3362P-101	100	254001CE	3362P-203	20k
253972CE	3362P-201	200	254019CE	3362P-253	25k
254078CE	3362P-501	500	254027CE	3362P-503	50k
253981CE	3362P-102	1k	254035CE	3362P-104	100k
253999CE	3362P-202	2k	254107CE	3362P-204	200k
254086CE	3362P-502	5k	254043CE	3362P-504	500k
254094CE	3362P-103	10k	254115CE	3362P-105	1M

1/2-Watt, 1/4" Square, Single-Turn Cermet Potentiometers Side Adjustment ($\pm 10\%$)

3362W Series Value Equivalents

- Resistance tolerance: $\pm 10\%$
- Insulation resistance: (500VDC) 1,000M Ω
- Absolute minimum resistance: 1 Ω or 2 Ω (whichever is greater)
- Contact resistance variation: 1 Ω or 3 Ω maximum (whichever is greater)
- Power rating: 0.5W @ 70°C (300V max.)



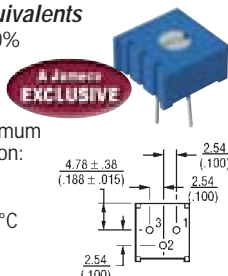
Qty.	1	10	50	100
Price	\$.59	\$.54	\$.45	\$.41

Part No.	Cross Ref No.	Ohms	Part No.	Cross Ref No.	Ohms
254140CE	3362W-101	100	254211CE	3362W-203	20k
254158CE	3362W-201	200	254220CE	3362W-253	25k
254166CE	3362W-501	500	254238CE	3362W-503	50k
254174CE	3362W-102	1k	254246CE	3362W-104	100k
254182CE	3362W-202	2k	254254CE	3362W-204	200k
254191CE	3362W-502	5k	254262CE	3362W-504	500k
254203CE	3362W-103	10k	254271CE	3362W-105	1M

1/2-Watt, 3/8" Square, Single-Turn Trimming Potentiometers Top Adjustment ($\pm 10\%$)

3386P Series Value Equivalents

- Resistance tolerance: $\pm 10\%$
- Absolute minimum resistance: 2 Ω maximum
- Insulation resistance: (500VDC) 1,000M Ω minimum
- Contact resistance variation: 2 Ω or 3 Ω maximum (whichever is greater)
- Power rating: 0.5W @ 85°C (300V maximum)



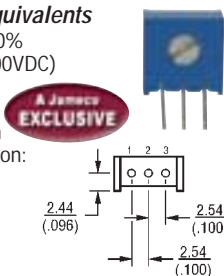
Qty.	1	10	50	100
Price	\$.85	\$.76	\$.67	\$.64

Part No.	Cross Ref No.	Ohms	Part No.	Cross Ref No.	Ohms
254289CE	3386P-500	50	254377CE	3386P-253	25k
254297CE	3386P-101	100	254385CE	3386P-503	50k
254300CE	3386P-201	200	254393CE	3386P-104	100k
254318CE	3386P-501	500	254406CE	3386P-204	200k
254326CE	3386P-102	1k	254414CE	3386P-254	250k
254334CE	3386P-202	2k	254422CE	3386P-504	500k
254342CE	3386P-502	5k	254431CE	3386P-105	1M
254351CE	3386P-103	10k	254449CE	3386P-205	2M
254369CE	3386P-203	20k			

1/2-Watt, 3/8" Square, Single-Turn Trimming Potentiometers Side Adjustment ($\pm 10\%$)

3386W Series Value Equivalents

- Resistance tolerance: $\pm 10\%$
- Insulation resistance: (500VDC) 1,000M Ω minimum
- Absolute minimum resistance: 2 Ω maximum
- Contact resistance variation: 2 Ω or 3 Ω maximum (whichever is greater)
- Adjustment angle: 280° nominal



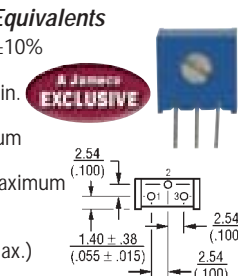
Qty.	1	10	50	100
Price	\$.89	\$.79	\$.69	\$.65

Part No.	Cross Ref No.	Ohms	Part No.	Cross Ref No.	Ohms
241381CE	3386W-500	50	241470CE	3386W-253	25k
241390CE	3386W-101	100	241488CE	3386W-503	50k
241402CE	3386W-201	200	241496CE	3386W-104	100k
241411CE	3386W-501	500	241509CE	3386W-204	200k
241429CE	3386W-102	1k	241517CE	3386W-254	250k
241437CE	3386W-202	2k	241525CE	3386W-504	500k
241445CE	3386W-502	5k	241533CE	3386W-105	1M
241453CE	3386W-103	10k	241541CE	3386W-205	2M
241461CE	3386W-203	20k			

1/2-Watt, 3/8" Square, Single-Turn Trimming Potentiometers Side Adjustment ($\pm 10\%$)

3386X Series Value Equivalents

- Resistance tolerance: $\pm 10\%$
- Insulation resistance: (500VDC) 1,000M Ω min.
- Absolute minimum resistance: 2 Ω maximum
- Contact resistance variation: 2 Ω or 3 Ω maximum (whichever is greater)
- Power rating: 0.5W @ 85°C (300V max.)



Qty.	1	10	50	100
Price	\$.85	\$.76	\$.67	\$.64

Part No.	Cross Ref No.	Ohms	Part No.	Cross Ref No.	Ohms
264604CE	3386X-500	50	264698CE	3386X-253	25k
264612CE	3386X-101	100	264701CE	3386X-503	50k
264621CE	3386X-201	200	264719CE	3386X-104	100k
264639CE	3386X-501	500	264727CE	3386X-204	200k
264647CE	3386X-102	1k	264735CE	3386X-254	250k
264655CE	3386X-202	2k	264743CE	3386X-504	500k
264663CE	3386X-502	5k	264751CE	3386X-105	1M
264671CE	3386X-103	10k	264760CE	3386X-205	2M
264680CE	3386X-203	20k			

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- V = vertical mount; H = horizontal mount
- See technical datasheets on www.Jameco.com for complete specifications



Horizontal Vertical

2100 Series Equivalents

Part No.	Cross Ref. No.	L (µH) @ 1kHz	IDC max. (A)	DCR max. (Ω)	Lead Spa. (in)	Lead Dia. (in)	Pricing		
							1	10	100
371741CE	2101-V	10.0	10.8	0.006	0.34	0.053	\$1.69	\$1.03	\$.74
371506CE	2101-H	10.0	10.8	0.006	0.77	0.053	1.69	1.03	.74
371750CE	2102-V	12.0	10.3	0.007	0.34	0.053	1.69	1.04	.74
371514CE	2102-H	12.0	10.3	0.007	0.77	0.053	1.69	1.04	.74
371768CE	2103-V	15.0	7.7	0.012	0.33	0.042	1.69	1.04	.74
371522CE	2103-H	15.0	7.7	0.012	0.76	0.042	1.69	1.04	.74
371776CE	2104-V	18.0	7.4	0.013	0.33	0.042	1.69	1.04	.74
371531CE	2104-H	18.0	7.4	0.013	0.76	0.042	1.69	1.04	.74
371784CE	2105-V	22.0	7.0	0.015	0.33	0.042	1.69	1.04	.74
371549CE	2105-H	22.0	7.0	0.015	0.76	0.042	1.69	1.04	.74
371792CE	2106-V	27.0	5.3	0.026	0.32	0.034	1.69	1.04	.74
371557CE	2106-H	27.0	5.3	0.026	0.75	0.034	1.69	1.04	.74
371805CE	2107-V	33.0	5.0	0.029	0.32	0.034	1.69	1.04	.74
371565CE	2107-H	33.0	5.0	0.029	0.75	0.034	1.69	1.04	.74
371813CE	2108-V	39.0	4.8	0.032	0.32	0.034	1.69	1.04	.74
371573CE	2108-H	39.0	4.8	0.032	0.75	0.034	1.69	1.04	.74
371821CE	2109-V	47.0	3.6	0.055	0.31	0.027	1.69	1.04	.74
371581CE	2109-H	47.0	3.6	0.055	0.75	0.027	1.69	1.04	.74
371830CE	2110-V	56.0	3.4	0.060	0.31	0.027	1.69	1.04	.74
371590CE	2110-H	56.0	3.4	0.060	0.75	0.027	1.69	1.04	.74
371848CE	2111-V	68.0	3.3	0.067	0.31	0.027	1.69	1.04	.74
371602CE	2111-H	68.0	3.3	0.067	0.75	0.027	1.69	1.04	.74
371856CE	2112-V	100.0	2.4	0.13	0.31	0.022	1.69	1.04	.74
371611CE	2112-H	100.0	2.4	0.13	0.74	0.022	1.69	1.04	.74
371864CE	2113-V	120.0	2.2	0.15	0.31	0.022	1.69	1.04	.74
371629CE	2113-H	120.0	2.2	0.15	0.74	0.022	1.69	1.04	.74
371872CE	2114-V	150.0	3.4	0.062	0.35	0.034	1.69	1.04	.74
371637CE	2114-H	150.0	3.4	0.062	0.79	0.034	1.69	1.04	.74
371881CE	2115-V	180.0	2.6	0.11	0.34	0.027	1.69	1.04	.74
371645CE	2115-H	180.0	2.6	0.11	0.77	0.027	1.69	1.04	.74
371899CE	2116-V	220.0	2.4	0.12	0.34	0.027	1.69	1.04	.74
371653CE	2116-H	220.0	2.4	0.12	0.77	0.027	1.69	1.04	.74
371901CE	2117-V	270.0	1.8	0.21	0.33	0.022	1.89	1.17	.84
371661CE	2117-H	270.0	1.8	0.21	0.76	0.022	1.89	1.17	.84
371910CE	2118-V	330.0	1.7	0.23	0.33	0.022	1.89	1.17	.84
371670CE	2118-H	330.0	1.7	0.23	0.76	0.022	1.89	1.17	.84
371928CE	2119-V	390.0	1.7	0.25	0.33	0.022	1.89	1.17	.84
371688CE	2119-H	390.0	1.7	0.25	0.76	0.022	1.89	1.17	.84
371936CE	2120-V	470.0	1.6	0.28	0.35	0.022	1.89	1.17	.84
371696CE	2120-H	470.0	1.6	0.28	0.76	0.022	1.89	1.17	.84
371944CE	2121-V	560.0	1.5	0.30	0.35	0.022	1.89	1.17	.84
371709CE	2121-H	560.0	1.5	0.30	0.79	0.022	1.89	1.17	.84
371952CE	2122-V	680.0	1.4	0.33	0.35	0.022	1.89	1.17	.84
371717CE	2122-H	680.0	1.4	0.33	0.79	0.022	1.89	1.17	.84
371961CE	2123-V	820.0	1.4	0.37	0.35	0.022	1.89	1.17	.84
371725CE	2123-H	820.0	1.4	0.37	0.79	0.022	1.89	1.17	.84
371979CE	2124-V	1000.0	1.3	0.40	0.37	0.022	1.89	1.17	.84
371733CE	2124-H	1000.0	1.3	0.40	0.81	0.022	1.89	1.17	.84

2200 Series Equivalents

371266CE	2201-V	10.0	12.5	0.007	0.46	0.053	\$2.15	\$1.31	\$.93
371021CE	2201-H	10.0	12.5	0.007	0.88	0.053	2.15	1.31	.93
371274CE	2202-V	12.0	12.0	0.008	0.46	0.053	2.15	1.31	.93
371039CE	2202-H	12.0	12.0	0.008	0.88	0.053	2.15	1.31	.93
371282CE	2203-V	15.0	11.3	0.008	0.46	0.053	2.15	1.31	.93
371047CE	2203-H	15.0	11.3	0.008	0.88	0.053	2.15	1.31	.93
371291CE	2204-V	18.0	10.8	0.009	0.46	0.053	2.15	1.31	.93
371055CE	2204-H	18.0	10.8	0.009	0.88	0.053	2.15	1.31	.93
371303CE	2205-V	22.0	10.3	0.010	0.46	0.053	2.15	1.31	.93
371063CE	2205-H	22.0	10.3	0.010	0.88	0.053	2.15	1.31	.93

2200 Series Equivalents (Continued)

Part No.	Cross Ref. No.	L (µH) @ 1kHz	IDC max. (A)	DCR max. (Ω)	Lead Spa. (in)	Lead Dia. (in)	Pricing		
							1	10	100
371311CE	2206-V	27.0	9.8	0.011	0.46	0.053	\$2.15	\$1.31	\$.93
371071CE	2206-H	27.0	9.8	0.011	0.88	0.053	2.15	1.31	.93
371320CE	2207-V	33.0	7.4	0.020	0.45	0.042	2.15	1.31	.93
371080CE	2207-H	33.0	7.4	0.020	0.87	0.042	2.15	1.31	.93
371338CE	2208-V	39.0	7.1	0.022	0.45	0.042	2.15	1.31	.93
371098CE	2208-H	39.0	7.1	0.022	0.87	0.042	2.15	1.31	.93
371346CE	2209-V	47.0	6.7	0.024	0.45	0.042	2.15	1.31	.93
371101CE	2209-H	47.0	6.7	0.024	0.87	0.042	2.15	1.31	.93
371354CE	2210-V	56.0	6.4	0.026	0.45	0.042	2.15	1.31	.93
371119CE	2210-H	56.0	6.4	0.026	0.87	0.042	2.15	1.31	.93
371362CE	2211-V	68.0	4.9	0.046	0.44	0.034	2.15	1.31	.93
371127CE	2211-H	68.0	4.9	0.046	0.86	0.034	2.15	1.31	.93
371371CE	2212-V	100.0	4.4	0.056	0.44	0.034	2.15	1.31	.93
371135CE	2212-H	100.0	4.4	0.056	0.86	0.034	2.15	1.31	.93
371389CE	2213-V	120.0	3.3	0.098	0.44	0.027	2.15	1.31	.93
371143CE	2213-H	120.0	3.3	0.098	0.86	0.027	2.15	1.31	.93
371397CE	2214-V	150.0	3.1	0.11	0.44	0.027	2.15	1.31	.93
371151CE	2214-H	150.0	3.1	0.11	0.86	0.027	2.15	1.31	.93
371400CE	2215-V	180.0	3.8	0.075	0.48	0.034	2.15	1.31	.93
371160CE	2215-H	180.0	3.8	0.075	0.90	0.034	2.15	1.31	.93
371418CE	2216-V	220.0	3.6	0.083	0.48	0.034	2.15	1.31	.93
371178CE	2216-H	220.0	3.6	0.083	0.90	0.034	2.15	1.31	.93
371426CE	2217-V	270.0	3.4	0.092	0.48	0.034	2.35	1.45	1.03
371186CE	2217-H	270.0	3.4	0.092	0.90	0.034	2.35	1.45	1.03
371434CE	2218-V	330.0	3.3	0.10	0.48	0.034	2.35	1.45	1.03
371194CE	2218-H	330.0	3.3	0.10	0.90	0.034	2.35	1.45	1.03
371442CE	2219-V	390.0	2.5	0.18	0.46	0.027	2.35	1.45	1.03
371207CE	2219-H	390.0	2.5	0.18	0.88	0.027	2.35	1.45	1.03
371451CE	2220-V	470.0	2.3	0.19	0.46	0.027	2.35	1.45	1.03
371215CE	2220-H	470.0	2.3	0.19	0.88	0.027	2.35	1.45	1.03
371469CE	2221-V	560.0	2.2	0.21	0.46	0.027	2.35	1.45	1.03
371223CE	2221-H	560.0	2.2	0.21	0.88	0.027	2.35	1.45	1.03
371477CE	2222-V	680.0	2.1	0.23	0.49	0.027	2.35	1.45	1.03
371231CE	2222-H	680.0	2.1	0.23	0.91	0.027	2.35	1.45	1.03
371485CE	2223-V	820.0	2.0	0.26	0.49	0.027	2.35	1.45	1.03
371240CE	2223-H	820.0	2.0	0.26	0.91	0.027	2.35	1.45	1.03
371493CE	2224-V	1000.0	1.9	0.28	0.49	0.027	2.35	1.45	1.03
371258CE	2224-H	1000.0	1.9	0.28	0.91	0.027	2.35	1.45	1.03

2300 Series Equivalents

386901CE	2301-V	10.0	20.0	0.005	0.56	0.066	\$2.19	\$1.49	\$1.13
386361CE	2301-H	10.0	20.0	0.005	1.18	0.066	2.19	1.49	1.13
386935CE	2302-V	12.0	19.1	0.005	0.56	0.066	2.19	1.49	1.13
386396CE	2302-H	12.0	19.1	0.005	1.18	0.066	2.19	1.49	1.13
386951CE	2303-V	15.0	18.0	0.006	0.56	0.066	2.19	1.49	1.13
386425CE	2303-H	15.0	18.0	0.006	1.18	0.066	2.19	1.49	1.13
386978CE	2304-V	18.0	17.2	0.006	0.56	0.066	2.19	1.49	1.13
386441CE	2304-H	18.0	17.2	0.006	1.18	0.066	2.19	1.49	1.13
387006CE	2305-V	22.0	16.4	0.007	0.56	0.066	2.19	1.49	1.13
386468CE	2305-H	22.0	16.4	0.007	1.18	0.066	2.19	1.49	1.13
387022CE	2306-V	27.0	15.6	0.008	0.56	0.066	2.19	1.49	1.13
386484CE	2306-H	27.0	15.6	0.008	1.18	0.066	2.19	1.49	1.13
387049CE	2307-V	33.0	11.7	0.013	0.53	0.053	2.19	1.49	1.13
386505CE	2307-H	33.0	11.7	0.013	1.14	0.053	2.19	1.49	1.13
387065CE	2308-V	39.0	11.2	0.014	0.53	0.053	2.19	1.49	1.13
386521CE	2308-H	39.0	11.2	0.014	1.14	0.053	2.19	1.49	1.13
387090CE	2309-V	47.0	10.7	0.016	0.53	0.053	2.19	1.49	1.13
386548CE	2309-H	47.0	10.7	0.016	1.14	0.053	2.19	1.49	1.13
387111CE	2310-V	56.0	10.2	0.017	0.53	0.053	2.19	1.49	1.13
386564CE	2310-H	56.0	10.2	0.017	1.14	0.053	2.19	1.49	1.13
387137CE	2311-V	68.0	7.7	0.030	0.52	0.042	2.19	1.49	1.13
386581CE	2311-H	68.0	7.7	0.030	1.13	0.042	2.19	1.49	1.13
387161CE	2312-V	100.0	7.0	0.037	0.52	0.042	2.19	1.49	1.13
386601CE	2312-H	100.0	7.0	0.037	1.13	0.042	2.19	1.49	1.13
387188CE	2313-V	120.0	6.7	0.040	0.52	0.042	2.19	1.49	1.13
386636CE	2313-H	120.0	6.7	0.040	1.13	0.042	2.19	1.49	1.13
387209CE	2314-V	150.0	5.0	0.071	0.51	0.034	2.19	1.49	1.13

JAMECO ValuePro High Current Toroid Inductors 2300 Series Equivalents (Continued)

Part No.	Cross Ref. No.	L (μH) @ 1KHz	IDC max. (A)	DCR max. (Ω)	Lead Spa. (in)	Lead Dia. (in)	Pricing		
							1	10	100
386652CE	2314-H	150.0	5.0	0.071	1.12	0.034	\$2.19	\$1.49	\$1.13
387233CE	2315-V	180.0	4.8	0.078	0.51	0.034	2.19	1.49	1.13
386679CE	2315-H	180.0	4.8	0.078	1.12	0.034	2.19	1.49	1.13
387268CE	2316-V	220.0	5.8	0.054	0.56	0.042	2.19	1.49	1.13
386695CE	2316-H	220.0	5.8	0.054	1.17	0.042	2.19	1.49	1.13
387284CE	2317-V	270.0	5.5	0.060	0.56	0.042	2.19	1.49	1.13
386724CE	2317-H	270.0	5.5	0.060	1.17	0.042	2.19	1.49	1.13
387313CE	2318-V	330.0	5.2	0.067	0.56	0.042	2.19	1.49	1.13
386741CE	2318-H	330.0	5.2	0.067	1.17	0.042	2.19	1.49	1.13
387330CE	2319-V	390.0	5.0	0.072	0.56	0.042	2.19	1.49	1.13
386767CE	2319-H	390.0	5.0	0.072	1.17	0.042	2.19	1.49	1.13

Part No.	Cross Ref. No.	L (μH) @ 1KHz	IDC max. (A)	DCR max. (Ω)	Lead Spa. (in)	Lead Dia. (in)	Pricing		
							1	10	100
387364CE	2320-V	470.0	3.8	0.13	0.54	0.034	\$2.19	\$1.49	\$1.13
386783CE	2320-H	470.0	3.8	0.13	1.16	0.034	2.19	1.49	1.13
387381CE	2321-V	560.0	3.6	0.14	0.54	0.034	2.19	1.49	1.13
386812CE	2321-H	560.0	3.6	0.14	1.16	0.034	2.19	1.49	1.13
387410CE	2322-V	680.0	3.4	0.15	0.54	0.034	2.19	1.49	1.13
386839CE	2322-H	680.0	3.4	0.15	1.16	0.034	2.19	1.49	1.13
387436CE	2323-V	820.0	2.6	0.27	0.53	0.027	2.19	1.49	1.13
386855CE	2323-H	820.0	2.6	0.27	1.14	0.027	2.19	1.49	1.13
388041CE	2324-V	1000.0	2.4	0.30	0.53	0.027	2.19	1.49	1.13
386880CE	2324-H	1000.0	2.4	0.30	1.14	0.027	2.19	1.49	1.13

JAMECO ValuePro Epoxy Conformal Coated RF Chokes

77F Series Equivalents

- High current and self-resonant frequency
- Low DCR • Low cost • Color bands identification
- Dielectric strength: 550Vrms
- Operating temp.: -55°C to +105°C
- Overall length: 2.41" • Lead length: 1.0"
- Body length: 0.41" • Body diameter: 0.157"

Part No.	Cross Ref. No.	L ±10% (μH)	SRF (MHz) (min.)	DCR Max. (Ω)	I (mA) Max.	Pricing		
						1	10	100
371995CE	77F6R8	6.8	68.0	0.48	550	\$.43	\$.39	\$.32
372007CE	77F100	10.0	45.0	0.58	500	.43	.39	.32
372015CE	77F270	27.0	7.6	0.94	390	.43	.39	.32
372023CE	77F330*	33.0	6.3	1.03	370	.43	.39	.32
372031CE	77F470*	47.0	6.3	1.22	340	.43	.39	.32
372040CE	77F820*	82.0	5.3	1.62	290	.43	.39	.32
372058CE	77F101*	100.0	4.8	1.80	275	.43	.39	.32
372066CE	77F221*	220.0	3.0	5.10	155	.43	.39	.32
372074CE	77F331*	330.0	2.6	6.40	137	.43	.39	.32
372082CE	77F391*	390.0	2.4	7.00	133	.43	.39	.32
372091CE	77F102*	1000.0	1.4	14.0	100	.43	.39	.32

* L (μH) ±5%

78F Series Equivalents

- High Q and self-resonant frequency
- Low DCR • Low cost • Color bands identification
- Dielectric strength: 500Vrms
- Operating temp.: -55°C to +105°C
- Overall length: 2.28" • Lead length: 1.0"
- Body length: 0.28" • Body diameter: 0.11"

Part No.	Cross Ref. No.	L ±10% (μH)	SRF (MHz) (min.)	DCR Max. (Ω)	I (mA) Max.	Pricing		
						1	10	100
372103CE	78FR68	0.68	250	0.12	495	\$.42	\$.26	\$.173
372111CE	78F1R0	1.0	180	0.15	385	.42	.26	.173
372120CE	78F1R8	1.8	125	0.25	455	.42	.26	.173
372138CE	78F2R7	2.7	95	0.30	355	.42	.26	.173
372146CE	78F3R3*	3.3	70	0.34	270	.42	.26	.173
372154CE	78F4R7*	4.7	50	0.35	230	.42	.26	.173
372162CE	78F8R2*	8.2	28	0.55	155	.42	.26	.173
372171CE	78F100*	10.0	22	0.72	130	.42	.26	.173
372189CE	78F120*	12.0	20	0.80	155	.42	.26	.173
372197CE	78F220*	22.0	13	1.20	140	.42	.26	.173
372200CE	78F270*	27.0	11	1.35	135	.42	.26	.173
372218CE	78F330*	33.0	10	1.50	195	.42	.26	.173
372226CE	78F390*	39.0	9.5	1.70	185	.42	.26	.173
372234CE	78F470*	47.0	8.5	2.30	167	.42	.26	.173
372242CE	78F101*	100.0	5.5	3.50	125	.42	.26	.173
372251CE	78F121*	120.0	5.4	3.80	100	.42	.26	.173
372269CE	78F221*	220.0	4.0	5.70	76	.42	.26	.173
372277CE	78F471*	470.0	2.5	11.6	53	.42	.26	.173

* L (μH) ±5%

JAMECO ValuePro Molded RF Chokes

9230 Series Equivalents

- High Q and high reliability • Miniature size
- Injection molded to protect coil from extreme environment
- Color band or numerical marking identification
- Dielectric strength: 1000Vrms
- Operating temp.: phenolic -55°C to +125°C, iron / ferrite -55°C to +105°C
- Overall length: 2.25" • Lead length: 1.0"
- Body length: 0.25" • Body diameter: 0.095"

Part No.	Cross Ref. No.	L ±10% (μH)	SRF (MHz) (min.)	DCR Max. (Ω)	I (mA) Max.	Core Material	Pricing		
							1	10	100
372285CE	9230-94	0.10	690	0.07	1100	Phenolic	\$.84	\$.55	\$.37
372293CE	9230-00	0.15	600	0.10	1100	Phenolic	.65	.41	.29
372306CE	9230-04	0.22	510	0.14	935	Phenolic	.81	.51	.33
372314CE	9230-10	0.39	380	0.30	640	Phenolic	.82	.51	.33
372322CE	9230-12	0.47	340	0.35	590	Phenolic	.81	.51	.33
372331CE	9230-14	0.56	300	0.50	495	Phenolic	.84	.76	.62
372349CE	9230-16	0.68	275	0.60	450	Phenolic	.81	.51	.33
372357CE	9230-20	1.0	230	1.0	350	Phenolic	.81	.51	.33
372365CE	9230-32	3.3	90	0.85	380	Iron	.88	.55	.40
372373CE	9230-34	3.9	82	1.0	350	Iron	1.09	.98	.82
372381CE	9230-36	4.7	75	1.2	320	Iron	.88	.55	.40
372390CE	9230-44	10.0	50	3.7	180	Iron	1.01	.62	.45
372402CE	9230-52	22.0	25	3.3	190	Iron	1.03	.63	.46
372411CE	9230-56	33.0	24	3.4	187	Ferrite	1.09	.68	.48
372429CE	9230-64	68.0	15	6.7	135	Ferrite	1.09	.68	.48
372437CE	9230-68	100.0	13	8.0	125	Ferrite	1.19	.74	.53
372445CE	9230-70	120.0	12	13.0	97	Ferrite	1.45	1.31	1.06

9250 Series Equivalents

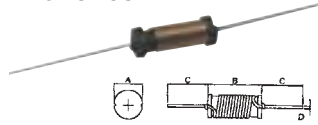
- High Q and high reliability
- Ferrite magnetic shielded for low radiation
- Injection molded to protect coil from extreme environment
- Color band or numerical marking identification
- Dielectric strength: 1000Vrms
- Operating temp.: -55°C to +105°C

Part No.	Cross Ref. No.	L ±10% (μH)	SRF (MHz) (Min.)	DCR Max. (Ω)	I (mA) Max.	Core Material	Pricing		
							1	10	100
372453CE	9250-102	1.0	140	0.07	1070	Iron	\$1.59	\$.97	\$.68
372461CE	9250-222	2.2	100	0.19	650	Iron	1.59	.97	.68
372470CE	9250-472	4.7	70	0.55	380	Iron	1.59	.97	.68
372488CE	9250-103	10.0	46	1.62	220	Iron	1.59	.97	.68
372496CE	9250-223	22.0	41	0.96	290	Ferrite	1.59	.97	.68
372509CE	9250-473	47.0	27	2.11	195	Ferrite	1.75	1.07	.75
372517CE	9250-104	100.0	10	3.12	160	Ferrite	1.89	1.17	.82
372525CE	9250-224	220.0	7.5	5.0	125	Ferrite	1.89	1.17	.82
372533CE	9250-474	470.0	5.7	9.5	92	Ferrite	1.89	1.17	.82
372541CE	9250-105	1000.0	3.8	17.5	70	Ferrite	1.89	1.17	.82
372550CE	9250-225	2200.0	0.97	33.8	50	Ferrite	2.19	1.34	.94
372568CE	9250-106	10,000.0	0.47	137	24	Ferrite	2.35	1.44	1.01

Axial Leaded RF Chokes

4600 Series Equivalents

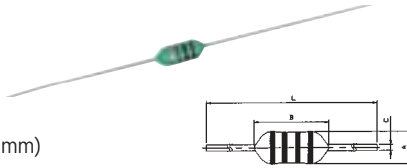
- Inductive tolerance: 10%
- Operating temperature: -55°C to +125°C
- Size: A = 6.8mm max.; B = 19.0mm max.
C = 25.0±2.0mm; D = 0.65±0.5mm



Part No.	Cross Ref. No.	L (μH)	Q (min.)	Res. Freq. Min. (MHz)	DCR Max. (Ω)	Max. DC Current (mA)	Pricing		
							1	10	100
208063CE	4602	1.0	60	190	.050	2000	\$.69	\$.62	\$.55
208071CE	4604	1.5	58	149	.093	1800	.69	.62	.55
208080CE	4606	2.4	56	120	.190	1500	.69	.62	.55
208098CE	4608	3.9	60	93	.450	1000	.69	.62	.55
208101CE	4609	5.5	57	80	.670	850	.69	.62	.55
208119CE	4610	6.2	57	76	.830	700	.69	.62	.55
208127CE	4611	8.2	57	65	1.2	600	.69	.62	.55
208135CE	4612	10	36	61	1.5	500	.69	.62	.55

Epoxy Conformal Coated Chokes

- Operating temperature: -25°C to +85°C
- Tolerance: 5%
- Size: A = 3.2mm max.
B = 7.0mm max.
C = 0.48±0.5mm
(except P/N 208143CE: 0.50±0.05mm)
D = 63±3mm



Part No.	L (μH)	Q (min.)	Test. Freq (MHz)	Res. Freq. Min. (MHz)	DCR Max. (Ω)	Max. DC Curr. (mA)	Pricing		
							1	10	100
208143CE	10	60	7.96	28.7	1.56	670	\$.49	\$.45	\$.39
208151CE	27	50	2.52	10.2	2.39	410	.49	.44	.33
208160CE	33	50	2.52	8.4	2.71	380	.49	.45	.39
208178CE	47	50	2.52	6.9	3.3	330	.49	.45	.39
208186CE	82	45	2.52	5.4	4.62	240	.49	.44	.40
208194CE	100	45	2.52	5.0	4.98	240	.49	.45	.39
208207CE	220	45	0.796	3.3	9.23	180	.49	.45	.39
208215CE	330	45	0.796	2.7	13.2	140	.49	.44	.40
208223CE	470	45	0.796	2.2	21.4	120	.49	.45	.39
208231CE	820	45	0.796	1.7	28.4	90	.49	.44	.33
208240CE	1000	45	0.796	1.5	31.3	80	.49	.45	.39

We offer technical documents for most of the products we carry.

Thermistors

NTC Thermistors

- Typical applications: temperature measurement/control/compensation; power supply fan control; PCB temperature monitoring
- Operating temperature range: -30°C ~ +130°C
- Maximum allowable power (@ 250°C): 0.55W
- Thermal dissipation factor: 6.5mW/°C (@ 250°C)
- Resistance value allowable difference: 10%



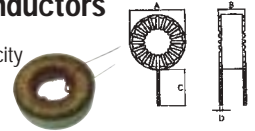
Part No.	Product No.	Resistance (Ω @ 25°C)	B Constant (25/50°C >10%)	Temp. Coef. @ 25°C (%/°C)	Pricing			
					1	10	100	500
207520CE	NTC-101	100	3100	-3.5	\$.59	\$.49	\$.39	\$.32
207511CE	NTC-201	200	3100	-3.5	.59	.49	.40	.30
207503CE	NTC-301	300	3100	-3.5	.59	.49	.39	.32
207491CE	NTC-501	500	3100	-3.5	.59	.49	.39	.32
207482CE	NTC-102	1k	3800	-4.3	.59	.49	.39	.32
207474CE	NTC-202	2k	3800	-4.3	.59	.49	.39	.32
207466CE	NTC-302	3k	3900	-4.4	.59	.50	.40	.30
207458CE	NTC-402	4k	3900	-4.4	.59	.49	.39	.32
207440CE	NTC-502	5k	3900	-4.4	.59	.49	.39	.32
207036CE	NTC-103	10k	4100	-4.6	.59	.49	.39	.32
207028CE	NTC-153	15k	4100	-4.6	.59	.53	.48	.38
207010CE	NTC-203	20k	4200	-4.7	.59	.49	.39	.32
207001CE	NTC-503	50k	4200	-4.7	.59	.49	.39	.32
206990CE	NTC-104	100k	4400	-4.9	.59	.49	.39	.32
206981CE	NTC-204	200k	4500	-5.1	.59	.50	.40	.30

Color Code Legend
New Sale Lower\$ QtySave

High Current Toroid Inductors

5700 Series Equivalents

- Low radiation • Low core loss • High current capacity
- Size: A = 22.22mm max.; B = 11.09mm max.
C = 15.0±1.0mm; D = 1.2±0.5mm
- See page 201 for EMI suppression cores
- See technical datasheets on www.Jameco.com for complete specifications



Part No.	Cross Ref. No.	L (μH)	IDC max. (A)	L min. @ IDC	Pricing				
					1	10	25	50	100
208258CE	5701	10	11.0	5	\$3.99	\$3.05	\$2.74	\$2.26	\$2.06
208266CE	5702	25	5.5	12	3.99	3.05	2.74	2.26	2.06
208311CE	5711	50	9.5	25	4.95	4.46	3.79	3.03	2.27
208303CE	5707	75	5.0	40	4.35	3.75	3.37	2.78	2.53
208274CE	5703	125	2.75	70	3.99	3.05	2.74	2.26	2.06
208320CE	5712	150	4.75	85	4.35	3.75	3.37	2.78	2.53
208282CE	5704	275	2.0	150	3.99	3.05	2.74	2.26	2.06
208291CE	5705	450	1.5	250	4.35	3.28	2.95	2.44	2.21

Varistors

LA Series Varistors (Radial Lead)

- AC power line applications • Power supplies • High energy absorption
- UL recognized as "transient voltage surge suppressors"
- UL recognized as "across-the-line components"

LA Series		Size	Max. Ratings (+85°C)		Characteristics at 25°C		Pricing			
			Continuous RMS Volt.	DC Volt.	Transient Energy (10/1000μs)	Max Clamping Volt. @ I _{PK} Value Curr. (8/20μs)	1	10	100	500
Part No.	Cross Ref. No.	Disc Dia. (mm)	V _{m(ac)} Volts	V _{m(dc)} Volts	W _{tm} Joules	V Volts	I _{PK} =2.0A Amps			
34446CE	V130LA10A	14	130	175	38	340	50	\$.29	\$.25	\$.22
34471CE	V250LA20A	14	250	330	72	650	50	.39	.35	.32
34462CE	V130LA20A	20	130	175	70	340	100	.59	.56	.54



BA & ZA Varistors

- BA series: Heavy duty industrial (MOV) metal oxide varistors
- ZA series: Low to medium voltage radial leaded varistors

NEW ON THE WEB



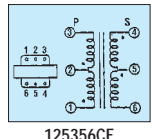
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See Complete Varistor Offering at www.Jameco.com/Prod/Varistors

Coupling Transformers

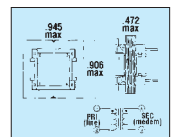
Modem Coupling Transformer

- Insulation resistance: 100MΩ
- Core type: EI-14
- Vacuum wax impregnated
- Hipot tested: 1000VAC
- ±20% impedance matching
- ±20% DC resistance matching



Part No.	Cross Ref. No.	Impedance (Ω)		Resistance (Ω)		Pricing		
		Primary	Secondary	Primary	Secondary	1	10	100
125356CE	XFR6006A14	600CT	600CT	65	55	\$1.35	\$1.28	\$1.15

Modem Coupling Transformer

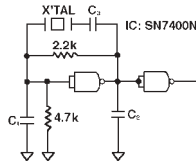


- Dielectric strength: 1250VAC
- Insertion loss: 2.50dB@1kHz

Part No.	Cross Ref. No.	Impedance (Ω)		Resistance (Ω)		Pricing		
		Primary	Secondary	Primary	Secondary	1	10	100
117760CE	671-8014	600	600	108	120	\$1.99	\$1.69	\$1.27

Crystals

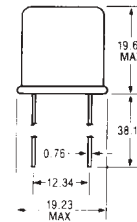
- Frequency calibration tolerance: ± 50 ppm @ 25°C
- Operating temperature: -10°C to +60°C
- Drive level: 4.0 mW maximum
- Shunt capacitance: 7pF maximum
- Frequency stability tolerance: ± 50 ppm from -10°C to +60°C



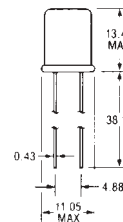
C1: 150-470 pF
 C2: 220-820 pF
 C3: Match crystal impedance

Application Reference (4-14MHz) (parallel resonance)

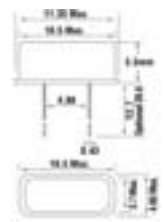
Dimensions in millimeters



HC33/U Case



HC49/U
(HC18/U) Case



HC49/US
Low Profile Case

HC33/U Case

Part No.	Comparable to:	Frequency (MHz)	Impedance	Pricing			
				1	10	100	1000
14349CE	CY1	1.0	13pF	\$4.95	\$4.49	\$3.95	\$3.49

HC49/U (HC18/U) Case

Part No.	Comparable to:	Frequency (MHz)	Impedance	1	10	100	1000
324224CE	TQR49U1M8432A1310	1.8432	13pF	\$.95	\$.86	\$.82	\$.64
324283CE	TQR49U2M0000AS10	2.0	Series	.94	.85	.82	.63
324275CE	TQR49U2M0000A2010	2.0	20pF	.94	.85	.82	.63
324312CE	TQR49U2M5000A1310	2.5	Series	.78	.71	.68	.53
324321CE	TQR49U3M0000AS10	3.0	Series	.78	.71	.68	.53
324347CE	TQR49U3M6864A1810	3.6864	18pF	.31	.284	.274	.211
324363CE	TQR49U4M0000AS10	4.0	Series	.31	.284	.274	.211
324355CE	TQR49U4M0320A2010	4.032	20pF	.31	.284	.274	.211
324371CE	TQR49U4M1940A1210	4.194	12pF	.31	.284	.274	.211
324401CE	TQR49U4M9152AS10	4.9152	Series	.31	.284	.274	.211
324380CE	TQR49U4M9152A2010	4.9152	20pF	.31	.284	.274	.211
324427CE	TQR49U5M0000AS10	5.0	Series	.31	.284	.274	.211
324419CE	TQR49U5M0000A2010	5.0	20pF	.31	.284	.274	.211
324435CE	TQR49U5M0688A2010	5.0688	20pF	.31	.284	.274	.211
324443CE	TQR49U5M1850A3210	5.185	32pF	.31	.284	.274	.211
324460CE	TQR49U6M0000AS10	6.0	Series	.31	.284	.274	.211
324451CE	TQR49U6M0000A3210	6.0	32pF	.31	.284	.274	.211
324478CE	TQR49U6M5536A1210	6.5536	12pF	.31	.284	.274	.211
324486CE	TQR49U7M6800A2010	7.68	20pF	.31	.284	.274	.211
324494CE	TQR49U8M6800A1810	8.0	18pF	.31	.284	.274	.211
324507CE	TQR49U8M0000A2010	8.0	20pF	.31	.284	.274	.211
324515CE	TQR49U8M0000A3210	8.0	32pF	.31	.284	.274	.211
324531CE	TQR49U9M2160AS10	9.216	Series	.31	.284	.274	.211

HC49/U (HC18/U) Case (Continued)

Part No.	Comparable to:	Frequency (MHz)	Impedance	1	10	100	1000
324523CE	TQR49U9M2160A2010	9.216	20pF	\$.31	\$.284	\$.274	\$.211
324540CE	TQR49U9M9304A2010	9.9304	20pF	.31	.284	.274	.211
324128CE	TQR49U11M0592AS10	11.0592	Series	.31	.284	.274	.211
324110CE	TQR49U11M0592A3210	11.0592	32pF	.31	.284	.274	.211
324136CE	TQR49U11M5200AS10	11.52	Series	.31	.284	.274	.211
324144CE	TQR49U11M9813AS10	11.98135	Series	.31	.284	.274	.211
324152CE	TQR49U12M288A2010	12.288	20pF	.31	.284	.274	.211
324161CE	TQR49U13M5168AS10	13.5168	Series	.31	.284	.274	.211
324179CE	TQR49U14M311818AS10	14.31818	Series	.31	.284	.255	.211
324187CE	TQR49U14M7456A2010	14.7456	20pF	.31	.284	.274	.211
324195CE	TQR49U14M7456AS10	14.7456	Series	.31	.284	.274	.211
324208CE	TQR49U16M0000A2010	16.0	20pF	.31	.284	.274	.211
324216CE	TQR49U18M0000A2010	18.0	20pF	.31	.284	.274	.211
324232CE	TQR49U18M4320A2010	18.432	20pF	.31	.284	.274	.211
324241CE	TQR49U19M6608A2010	19.6608	20pF	.31	.284	.274	.211
324259CE	TQR49U19M6608AS10	19.6608	Series	.31	.284	.274	.211
324267CE	TQR49U20M0000A2010	20.0	20pF	.31	.284	.274	.211
324304CE	TQR49U22M1184AS14	22.1184	Series	.31	.284	.274	.211
324339CE	JVP-324339	35.2512	18pF	.31	.284	.274	.211
324398CE	JVP-324398	49.86	20pF	.31	.284	.274	.211

Other Manufacturers — Great Deals

102613CE	CY1.843	1.8432	18pF	\$.99	\$.72	\$.51	\$.39
102621CE	CY2.0	2.0	Series	.89	.85	.83	.79
101274CE	CY2.457	2.4576	32pF	.99	.89	.71	.53
14525CE	CY3.27	3.2768	18pF	.99	.89	.79	.69
14533CE	CY3.57	3.579545	18pF	.59	.54	.42	.39
14568CE	CY3.68	3.6864	18pF	.89	.79	.69	.59
14592CE	CY4	4.0	20pF	.59	.54	.41	.39
14621CE	CY4.91	4.9152	Series	.89	.79	.69	.59

14681CE	CY6	6.0	18pF	\$.79	\$.71	\$.64	\$.50
14699CE	CY6.14	6.144	30pF	.37	.34	.30	.25
14710CE	CY7.37	7.3728	30pF	.89	.80	.65	.488
14728CE	CY8	8.0	Series	.89	.79	.69	.54
14381CE	CY10	10.0	Series	.79	.69	.59	.49
120061CE	CY11.05	11.0592	Series	.89	.79	.69	.59
14402CE	CY12	12.0	Series	.89	.75	.55	.39
14453CE	CY16	16.0	Series	.62	.56	.50	.44
14517CE	CY20	20.0	Series	.79	.69	.59	.39

HC49/US Low Profile Case

324988CE	TQR49S3M68640A1810	3.6864	18pF	\$.36	\$.325	\$.31	\$.24
324961CE	TQR49S4M0000A2010	4.0	20pF	.36	.325	.31	.24
324937CE	TQR49S4M09600A2010	4.096	20pF	.36	.325	.31	.24
324929CE	TQR49S5M0000A2010	5.0	20pF	.36	.325	.31	.24
324831CE	TQR49S7M3728A2010	7.3728	20pF	.36	.325	.31	.24
324822CE	TQR49S7M3728A2040	7.3728	20pF	.62	.57	.50	.36
324814CE	TQR49S7M6800A2010	7.68	20pF	.36	.325	.31	.24
324806CE	TQR49S8M0000A1810	8.0	18pF	.36	.325	.31	.24
324785CE	TQR49S8M0000A2010	8.0	20pF	.36	.325	.31	.24
324777CE	TQR49S8M0000A3210	8.0	32pF	.36	.325	.31	.24
324742CE	TQR49S9M2160AS10	9.216	Series	.36	.325	.31	.24
324734CE	TQR49S9M8304A2010	9.8304	20pF	.36	.325	.31	.24
325227CE	TQR49S11M0592A2010	11.0592	20pF	.36	.325	.31	.24

325219CE	TQR49S11M0592A3210	11.0592	32pF	\$.36	\$.325	\$.31	\$.24
325201CE	TQR49S12M0000A2010	12.0	20pF	.36	.325	.31	.26
325198CE	TQR49S12M0000A2040	12.0	20pF	.62	.57	.50	.36
325180CE	TQR49S12M0000A3210	12.0	32pF	.36	.325	.31	.24
325171CE	TQR49S12M2880A2010	12.288	20pF	.36	.325	.31	.24
325121CE	TQR49S16M0000A2040	16.0	20pF	.62	.57	.50	.36
325112CE	TQR49S18M4320A2010	18.432	20pF	.36	.325	.31	.24
325104CE	TQR49S18M4320A2040	18.432	20pF	.62	.57	.50	.36
325067CE	TQR49S20M0000A2010	20.0	20pF	.36	.325	.31	.24
325059CE	TQR49S20M0000A2040	20.0	20pF	.62	.57	.50	.36
325024CE	TQR49S24M0000A2010	24.0	20pF	.62	.57	.50	.36
325016CE	TQR49S24M576A2010	24.576	20pF	.36	.325	.31	.24
325008CE	TQR49S25M0000A1810	25.0	18pF	.36	.325	.31	.24

† Industrial temperature range (-40°C to 85°C)

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 with suggestions for products you'd like to see in future catalogs.

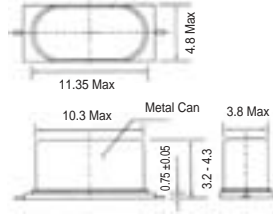
JAMECO ValuePro

SMD Version of HC49US

A Jameco EXCLUSIVE

The CSM-7 is an excellent choice for SMD version of the HC-49US leaded crystal. The CSM-7 has a case height of 4.3mm maximum in a resistance weld metal package.

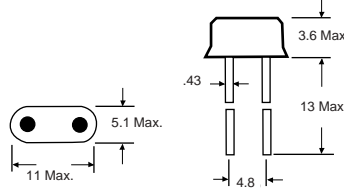
- Operating temperature range: -40°C to +85°C
- Frequency stability: $\pm 100\text{ppm}$
- Drive level: 0.5mw
- Aging (first year @ +25°C): $\pm 5\text{ppm}$



Part No.	Product No.	Frequency (MHz)	Impedance	Pricing			
				1	10	100	1000
325868CE	JVP-325868	3.579545	17pF	\$.83	\$.70	\$.55	\$.46
325876CE	JVP-325876	3.6864	20pF	.83	.70	.55	.46
325884CE	JVP-325884	4.0	20pF	.83	.70	.55	.46
325892CE	JVP-325892	6.0	32pF	.83	.70	.55	.43
325905CE	JVP-325905	7.3728	20pF	.83	.70	.55	.43
325913CE	JVP-325913	8.0	18pF	.83	.70	.55	.46
325921CE	JVP-325921	12.0	20pF	.83	.70	.56	.46
325930CE	JVP-325930	14.31818	20pF	.83	.70	.55	.46
325948CE	JVP-325948	16.0	20pF	.83	.70	.56	.46
325956CE	JVP-325956	18.432	20pF	.83	.70	.55	.46
325964CE	JVP-325964	19.6608	20pF	.83	.70	.55	.46
325972CE	JVP-325972	20.0	20pF	.83	.70	.55	.46
325981CE	JVP-325981	24.0	20pF	.83	.70	.55	.46

HC49/S Case (Low Profile Crystals)

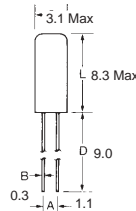
- Frequency range: 3.5 to 70.0MHz
- Operating temperature: -10°C to +60°C
- Drive level: 0.5mW (fundamental frequency)
- Aging: $\pm 5\text{ppm/year}$ maximum
- Frequency stability tolerance: $\pm 50\text{ppm}$



Part No.	Comparable to:	Frequency (KHz)	Imped.	Max. Resist.	Pricing			
					1	10	100	1000
137816CE	CY3.57LP	3.579545	17pF	150Ω	\$.95	\$.86	\$.68	\$.51
137832CE	CY4LP	4.000	17pF	120Ω	.99	.89	.79	.69
137859CE	CY8LP	8.000	Series	60Ω	.75	.67	.59	.53
137875CE	CY11.05LP	11.0592	Series	50Ω	1.05	.81	.66	.52
137891CE	CY16LP	16.000	Series	40Ω	.39	.36	.29	.27

Tuning Fork

- Operating temperature range: -10°C to +60°C
- Frequency tolerance: $\pm 20\text{ppm}$
- Drive level: 1mw
- Aging for first year: $\pm 3\text{ppm}$ (max. +25°C)



Part No.	Comparable to:	Frequency (MHz)	Impedance	Pricing			
				1	10	100	1000
14584CE	CY32.76	32.768kHz	10.5pF	\$.89	\$.79	\$.69	\$.59
325243CE	JVP-325243	32.768kHz	12.5pF	.23	.215	.185	.135

14-Pin Crystal Oscillator Socket

- Can be PCB mounted without the modifications that would be needed with DIP-IC sockets
- Low profile solder tail; machine tooled on 4 pins
- Good for prototyping and PCB mounting



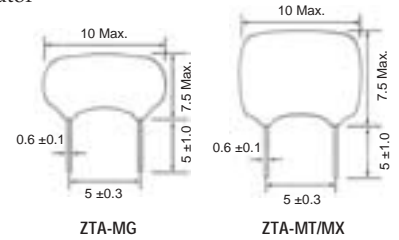
Part No.	Description	1	10	100	1000
133006CE	Oscillator socket	\$.55	\$.46	\$.34	\$.31

JAMECO ValuePro

Ceramic Resonators

The ZTA series ceramic resonator offers wide frequency range and extended temperature range capabilities.

- Low profile
- Wide frequency range
- High stability
- Frequency accuracy: $\pm 0.5\%$ @ 25°C
- Extended temperature range: -20°C to +85°C
- Temperature stability: $\pm 0.3\%$
- Drive level: 0.5mw
- Aging for 10 years: $\pm 0.3\%$



A Jameco EXCLUSIVE

Part No.	Comparable to:	Freq. (MHz)	No. of Pins	Resonant Resistance Ω (max.)	Withstanding Voltage 5 sec. (max.)	Pricing			
						1	10	100	1000
324591CE	TZTA-3M58MG	3.58	2	30	100V	\$.28	\$.255	\$.25	\$.195
324603CE	TZTA-4.00MG	4.0	2	30	100V	.28	.255	.25	.195
324611CE	TZTA-4.19MG	4.19	2	30	100V	.38	.32	.255	.195
324700CE	TZTT-4.19MG	4.19	3	30	100V	.42	.355	.285	.22
324620CE	TZTA-6.00MT	6.0	2	30	100V	.28	.26	.255	.195
324718CE	TZTT-6.00MT	6.0	3	30	100V	.31	.285	.275	.21
324638CE	TZTA-8.00MT	8.0	2	25	100V	.28	.26	.255	.195
324726CE	TZTT-8.00MT	8.0	3	25	100V	.31	.285	.275	.21
324558CE	TZTA-10.00MT	10.0	2	25	100V	.28	.255	.25	.195
324566CE	TZTA-12.00MT	12.0	2	25	100V	.28	.255	.25	.195
324654CE	TZTT-12.00MT	12.0	3	25	100V	.31	.285	.275	.21
324574CE	TZTA-16.00MT	16.0	2	55	100V	.28	.255	.25	.195
324662CE	TZTT-16.00MT	16.0	3	55	100V	.31	.285	.275	.21
324582CE	TZTA-20.00MT	20.0	2	55	100V	.28	.255	.25	.195
324671CE	TZTT-20.00MT	20.0	3	55	100V	.31	.285	.275	.21



Fuse Series

- UL class R fuse blocks
- FLNK class RK5 dual-element, time delay fuses
- **KLK series** AC fast acting type
- **CCMR series** fast acting and SLO-BLO type fuses
- UCB universal circuit breakers
- **Series 275/276 Pico**® very fast acting subminiature axial leaded fuses
- **Series 257 ATO**® fast acting automotive blade fuses
- **Series 299 Maxi**® SLO-BLO® automotive blade fuses
- 3AG Omni Block® molded base type fuse blocks
- **Series 239 - 5X** 20min time lag SLO-BLO® fuses
- **Series 451/453 Nano**® subminiature fuses
- **Series 253 Pico**® II very fast acting subminiature fuses (military spec.) leaded and cartridge
- ATO® fuse in-line fuseholders



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Resettable Fuses

Resettable fuses improve reliability and lower costs. Polymer Positive Temperature Coefficient (PPTC) fuses have provided designers in numerous industries a new tool in their battle to improve product quality and performance. As PPTC fuses are resettable, warranty costs and service calls are largely avoided.

RA Series

- Rated voltage: (V_{MAX}): 60V
- Max. current: (I_{MAX}): 40A
- Lead length (D): 7.6mm min.
- Thickness (E): 3.1mm max.

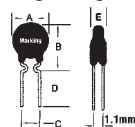


Fig. 1

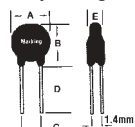


Fig. 2

RB Series

- Rated voltage: (V_{MAX}): 30V
- Max. current: (I_{MAX}): 40A
- Lead length (D): 7.6mm min.
- Thickness (E): 3.0mm max.

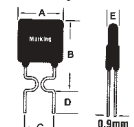


Fig. 3

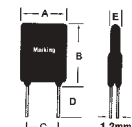


Fig. 4

Part No.	Mfg. P/N	Hold Curr. (I_H , A)	Trip Curr. (I_T , A)	Fig.	Size (mm)			Pricing			
					A	B	C	1	10	100	500
199814CE	RA010-60	0.10	0.20	1	7.4	12.7	5.1	.45	.41	.39	.31
199822CE	RA017-60	0.17	0.34	1	7.4	12.7	5.1	.45	.41	.39	.31
199831CE	RA020-60	0.20	0.40	1	7.4	12.2	5.1	.45	.41	.39	.31
199849CE	RA025-60	0.25	0.50	1	7.4	12.7	5.1	.45	.41	.39	.31
199857CE	RA030-60	0.30	0.60	1	7.4	13.0	5.1	.45	.41	.39	.31
199865CE	RA040-60	0.40	0.80	1	7.6	13.5	5.1	.49	.44	.41	.32
199873CE	RA050-60	0.50	1.00	1	7.9	13.7	5.1	.49	.46	.43	.32
199881CE	RA065-60	0.65	1.30	1	9.7	14.5	5.1	.50	.47	.43	.34
199890CE	RA075-60	0.75	1.50	1	10.4	15.2	5.1	.50	.47	.43	.34
199902CE	RA090-60	0.90	1.80	1	11.7	15.8	5.1	.52	.49	.45	.30
199911CE	RA110-60	1.10	2.20	2	13.0	18.0	5.1	.57	.55	.52	.40
199929CE	RA135-60	1.35	2.70	2	14.5	19.6	5.1	.58	.56	.53	.41
199937CE	RA160-60	1.60	3.20	2	16.3	21.3	5.1	.60	.57	.54	.42
199945CE	RA185-60	1.85	3.70	2	17.8	22.9	5.1	.59	.55	.55	.39
199953CE	RA250-60	2.50	5.00	2	21.3	26.4	10.2	.70	.63	.57	.49
199961CE	RA300-60	3.00	6.00	2	24.9	30.0	10.2	.74	.67	.60	.50
199970CE	RA375-60	3.75	7.50	2	28.5	33.5	10.2	.74	.67	.53	.41

Part No.	Mfg. P/N	Hold Curr. (I_H , A)	Trip Curr. (I_T , A)	Fig.	Size (mm)			Pricing			
					A	B	C	1	10	100	500
199988CE	RB090-30	0.90	1.80	3	7.4	12.2	5.1	.48	.43	.35	.26
199996CE	RB110-30	1.10	2.20	3	7.4	14.2	5.1	.48	.43	.39	.31
200002CE	RB135-30	1.35	2.70	3	8.9	13.5	5.1	.48	.46	.43	.34
200011CE	RB160-30	1.60	3.20	3	8.9	15.2	5.1	.45	.42	.39	.31
200029CE	RB185-30	1.85	3.70	3	10.2	15.7	5.1	.48	.43	.39	.32
200037CE	RB250-30	2.50	5.00	3	11.4	18.3	5.1	.52	.48	.43	.34
200045CE	RB300-30	3.00	6.00	4	11.4	17.3	5.1	.57	.52	.48	.37
200053CE	RB400-30	4.00	8.00	4	14.0	20.1	5.1	.62	.57	.52	.40
200061CE	RB500-30	5.00	10.00	4	14.0	24.9	10.2	.67	.60	.54	.44
200070CE	RB600-30	6.00	12.00	4	16.5	24.9	10.2	.73	.67	.61	.48
200088CE	RB700-30	7.00	14.00	4	19.1	26.7	10.2	.80	.73	.67	.52
200096CE	RB800-30	8.00	16.00	4	21.6	29.2	10.2	.87	.78	.63	.47
200109CE	RB900-30	9.00	18.00	4	24.1	29.7	10.2	.89	.79	.69	.59



Fuse Clips

- Low contact resistance
- Low profile
- Withstands shock and vibration

Prepackaged: order in increments of 10, 100 or 1000

Part No.	Description	Fig.	Size (H" x W" x D" x P")	10	100	1000
102859CE	5mm, front leads	1	.37 x .25 x .21 x .19	.12	.09	.05
119280CE	5mm, side leads	2	.33 x .25 x .20 x .21	.09	.08	.07
102841CE	1/4", front leads (10A)	3	.32 x .27 x .25 x .23	.09	.08	.07
220732CE	5mm, front leads (10A)	3	.33 x .27 x .25 x .29	.15	.10	.07

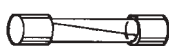


1/4" x 1/4" Standard Fuses

Fast Acting Fuses (250V) AGC/3AG Fuses

- Prepackaged: order in increments of 10, 100 or 1000

Part No.	Amps	Mfr.	10	100	1000
69403CE	250mA	Various	.20	.18	.16
10410CE	500mA	Various	.20	.18	.16
197510CE	630mA	Various	.20	.18	.16
10372CE	1 amp	Various	.20	.12	.11
197528CE	1.6 amp	Various	.20	.12	.11
10381CE	2 amp	Various	.20	.12	.11
197536CE	2.5 amp	Various	.21	.12	.09
69438CE	3 amp	Various	.20	.12	.11
197544CE	4 amp	Various	.22	.20	.18
10401CE	5 amp	Various	.22	.20	.18
197552CE	6.3 amp	Various	.22	.20	.18
69462CE	10 amp	Various	.25	.22	.20
186301CE	16 amp	Various	.25	.22	.20



Slow Blow Fuses (250V) MDL/3AG Fuses

Part No.	Amps	Mfr.	1	10	100	1000
25654CE	250mA	Various	.75	.59	.50	.40
25689CE	500mA	Various	.69	.59	.50	.37
25638CE	1 amp	Various	.69	.59	.50	.37
25646CE	2 amp	Various	.55	.44	.34	.28
69534CE	3 amp	Various	.55	.44	.34	.28
25671CE	5 amp	Various	.55	.44	.34	.28
69569CE	10 amp	Various	.75	.65	.51	.40



5mm x 20mm Miniature Fuses

Fast Acting Fuses (250V) GMA Fuses

- Recommended for new designs
- Prepackaged: order in increments of 10, 100, 500 or 1000

Part No.	Amps	Mfr.	10	100	500	1000
103886CE	250mA	Various	.20	.15	.11	.10
102040CE	500mA	Various	.20	.15	.11	.10
103907CE	1 amp	Various	.20	.15	.11	.10
103915CE	2 amp	Various	.25	.18	.13	.12
103923CE	3 amp	Various	.20	.15	.11	.10
103931CE	5 amp	Various	.20	.15	.11	.10



Slow Blow Fuses (250V) GMA Fuses

- Prepackaged: order in increments of 10, 100 or 1000

Part No.	Amps	Mfr.	10	100	1000
197501CE	500mA	Various	.29	.26	.23
197464CE	1 amp	Various	.29	.26	.23
197472CE	2 amp	Various	.35	.32	.29
197481CE	3.15 amp	Various	.35	.32	.29
197499CE	5 amp	Various	.35	.32	.29



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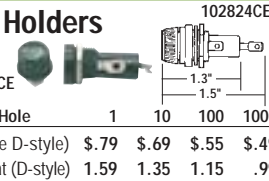
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Panel Mount Fuse Holders

1/4" x 1/4" Standard Thumbscrew Cap

- Straight solder terminal; 10A @ 250VAC

Part No.	Approvals	Size	Mounting Hole	1	10	100	1000
120993CE	—	1.95" L x .71" Dia.	.58" Dia. (Double D-style)	.79	.69	.55	.49
18702CE	UL/CSA	2.05" L x .71" Dia.	.58" Dia. x .52" Flat (D-style)	1.59	1.35	1.15	.99



5mm x 20mm Miniature Thumbscrew Cap

- Straight solder terminal; Size: 1.5" L x 0.6" Dia.

Part No.	Approvals	Current	Mounting Hole	1	10	100	1000
150463CE	—	6A @ 250VAC	.50" Dia. x .43" Flat	.99	.86	.75	.57
102824CE	UL/CSA	10A @ 250VAC	.50" Dia.	.99	.85	.72	.59



In-Line Fuse Holders

- Built-in spring ensures good fuse connection
- Vinyl covered wire with stranded copper center
- Wire color: red; except for P/N 108783CE orange

1/4" x 1/4" Standard

Part No.	AWG	Wire Lgths	Body Size(L)	Body Color	1	10	100
109321CE	22	3.5/3"	2.4"	Black	.65	.58	.52
102867CE	20	3/3"	2.2"	White	.65	.58	.48
151917CE	18	6/6"	2.4"	White	.99	.85	.65
108783CE	16	21/26"	2.2"	Black	.99	.87	.68
108791CE	14	19/25"	2.5"	Black	1.59	1.45	1.05



5mm x 20mm Miniature

Part No.	AWG	Wire Color	Body Size (L)	1	10	100
109330CE	20	Red	1.8"	.69	.56	.45

5mm x 20mm Miniature Low Profile Fuse Holder

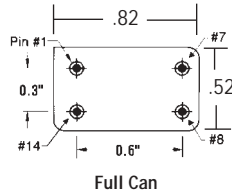
- Accepts 5 x 20mm fuses
- 10A @ 250VAC
- Size: 1.4" L x 0.6" Dia.
- D-style mounting hole: 1 ea. 0.5" Dia x .46" flat

Part No.	Description	1	10	100
102832CE	Fuse holder UL/CSA	\$1.95	\$1.79	\$1.59



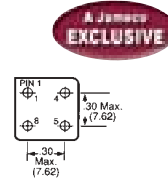
TTL Oscillators

- Specifications:**
- Input voltage: +5VDC ± 0.5 VDC
 - OSC series oscillators fit into a 14-pin DIP socket P/N 133006CE, pg 83
 - Frequency stability ± 100 ppm
 - Operating temperature: 0°C to 70°C
 - Output load TTL: 10 TTL max.

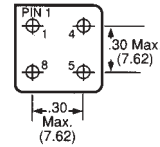


Pin #	Function
1	N/C
7	GND
8	Output
14	+5VDC

Full Can



325497CE



Half Can

Pin #	Function
1	N/C
4	GND
5	Output
8	+5VDC

Half Can

TTL Oscillators (Full Can)

Part No.	Comparable to:	Frequency (MHz)	Max. Input Current	Rise Fall Time	Pricing			
					1	10	100	1000
325411CE	TQOPD143M579545A3	3.579545	15mA	10ns	\$1.19	\$1.09	\$1.03	\$.79
325315CE	TQOPD143M686400A3	3.6864	15mA	10ns	1.19	1.09	1.03	.77
354888CE	TQOPD144M000000A3	4.0	15mA	10ns	1.35	1.22	1.17	.85
325374CE	TQOPD144M915200A3	4.9152	15mA	10ns	1.19	1.09	1.03	.79
325323CE	TQOPD145M000000A3	5.0	15mA	10ns	1.19	1.09	1.03	.79
325251CE	TQOPD145M068800A3	5.0688	15mA	10ns	1.19	1.09	1.03	.79
325260CE	TQOPD146M000000A3	6.0	15mA	10ns	1.19	1.09	1.03	.79
325278CE	TQOPD146M144000A3	6.144	15mA	10ns	1.19	1.09	1.03	.79
325358CE	TQOPD147M372800A3	7.3728	15mA	10ns	1.19	1.09	1.03	.77
354896CE	TQOPD148M000000A3	8.0	30mA	10ns	1.35	1.22	1.17	.85
325331CE	TQOPD149M216000A3	9.216	30mA	10ns	1.19	1.09	1.03	.79
325366CE	TQOPD149M830400A3	9.8304	30mA	10ns	1.19	1.09	1.03	.79
354909CE	TQOPD1410M000000A3	10.0	30mA	10ns	1.19	1.15	1.03	.77
354870CE	TQOPD1411M05920A3	11.0592	30mA	10ns	1.35	1.22	1.17	.85
354837CE	TQOPD1414M31818A3	14.31818	30mA	—	1.19	1.09	1.03	.79
354845CE	TQOPD1416M000000A3	16.0	30mA	10ns	1.35	1.22	1.17	.85
325286CE	TQOPD1416M25700A3	16.257	30mA	10ns	1.19	1.09	1.03	.79
325340CE	TQOPD1418M000000A3	18.0	30mA	10ns	1.19	1.09	1.03	.79
325382CE	TQOPD1418M432000A3	18.432	30mA	10ns	1.19	1.09	1.03	.79
325446CE	TQOPD1419M660800A3	19.6608	30mA	10ns	1.19	1.09	1.03	.79
354917CE	TQOPD1420M000000A3	20.0	30mA	10ns	1.35	1.22	1.17	.85
325391CE	TQOPD1424M000000A3	24.0	70mA	10ns	1.19	1.09	1.03	.77
325454CE	TQOPD1425M000000A3	25.0	70mA	5ns	1.19	1.09	1.03	.77
325403CE	TQOPD1428M322000A3	28.322	70mA	5ns	1.19	1.09	1.03	.79
325438CE	TQOPD1430M000000A3	30.0	70mA	5ns	1.19	1.09	1.03	.79
325294CE	TQOPD1435M000000A3	35.0	70mA	5ns	1.19	1.09	1.03	.79
354861CE	TQOPD1440M000000A3	40.0	70mA	5ns	1.35	1.22	1.17	.85
354853CE	TQOPD1450M000000A3	50.0	70mA	5ns	1.35	1.22	1.17	.85

Other Manufacturers

27861CE	OSC1	1.0	7mA	15ns	\$2.75	\$2.45	\$1.59	\$1.39
325307CE	TQOPD141M228800A3	1.2288	15mA	10ns	1.25	1.13	.89	.83
27879CE	OSC1.84	1.8432	7mA	15ns	2.39	2.15	1.95	1.59
27924CE	OSC2	2.0	7mA	15ns	1.99	1.79	1.59	1.39
27967CE	OSC4	4.0	7mA	10ns	1.99	1.79	1.59	1.39
27991CE	OSC8	8.0	15mA	15ns	1.99	1.79	1.59	1.39
27887CE	OSC10	10.0	15mA	10ns	1.99	1.79	1.59	1.39
144207CE	OSC11.05	11.059	50mA	10ns	1.35	1.19	.95	.89
27895CE	OSC12	12.0	15mA	10ns	1.99	1.79	1.59	1.29
108652CE	OSC14.31	14.31818	15mA	10ns	1.99	1.79	1.45	1.09
27908CE	OSC16	16.0	15mA	10ns	1.59	1.45	1.15	.85
27932CE	OSC20	20.0	17mA	10ns	1.79	1.59	1.45	1.29
27941CE	OSC32	32.0	18mA	7ns	1.59	1.45	1.15	.85
76822CE	OSC33	33.0	18mA	6ns	1.99	1.79	1.59	1.35
153226CE	OSC40	40.0	18mA	6ns	1.25	1.13	1.02	.83
76831CE	OSC50	50.0	25mA	6ns	1.99	1.79	1.43	1.07
325420CE	TQOPD1466M666A3	66.666	70mA	5ns	1.19	1.08	.92	.87
76857CE	OSC100	100.0	25mA	3ns	2.49	2.25	1.95	1.75

TTL Oscillators (Half Can)

Part No.	Comparable to:	Frequency (MHz)	Max. Input Current	Rise Fall Time	Pricing			
					1	10	100	1000
325500CE	TQOPD083M579545A3	3.579545	15mA	10ns	\$1.35	\$1.22	\$1.17	\$.90
325518CE	TQOPD083M6864A3	3.6864	15mA	10ns	1.35	1.22	1.17	.90
325526CE	TQOPD084M0000A3	4.0	15mA	10ns	1.32	1.21	1.17	.90
325534CE	TQOPD085M0688A3	5.0688	15mA	10ns	1.32	1.21	1.17	.90
325542CE	TQOPD086M0000A3	6.0	15mA	10ns	1.32	1.21	1.17	.90
325551CE	TQOPD086M1440A3	6.144	15mA	10ns	1.32	1.21	1.17	.90
325569CE	TQOPD088M0000A3	8.0	30mA	10ns	1.32	1.21	1.17	.90
325577CE	TQOPD089M2160A3	9.216	30mA	10ns	1.32	1.21	1.17	.90
325585CE	TQOPD089M8304A3	9.8304	30mA	10ns	1.35	1.22	1.17	.90
354829CE	TQOPD0810M0000A3	10.0	25mA	5ns	1.35	1.22	1.17	.90
325593CE	TQOPD0811M0592A3	11.0592	30mA	10ns	1.35	1.22	1.17	.90
325606CE	JVP-325606	12.0	30mA	10ns	1.35	1.22	1.17	.90
325614CE	TQOPD0814M31818A3	14.31818	30mA	10ns	1.35	1.22	1.17	.90
325622CE	TQOPD0816M0000A3	16.0	30mA	10ns	1.35	1.22	1.17	.90
325631CE	TQOPD0816M2570A3	16.257	30mA	10ns	1.35	1.22	1.17	.90
325649CE	TQOPD0818M4320A3	18.432	30mA	10ns	1.35	1.22	1.17	.90
325657CE	TQOPD0819M6608A3	19.6608	30mA	10ns	1.35	1.22	1.17	.90
325665CE	JVP-325665	20.0	30mA	10ns	1.35	1.22	1.17	.90
325673CE	TQOPD0825M0000A3	25.0	70mA	5ns	1.35	1.22	1.17	.90
325681CE	TQOPD0828M3220A3	28.322	70mA	5ns	1.35	1.22	1.17	.90
325690CE	TQOPD0830M0000A3	30.0	46mA	5ns	1.35	1.22	1.17	.90
325702CE	TQOPD0832M0000A3	32.0	70mA	5ns	1.35	1.22	1.17	.90
325711CE	TQOPD0832M5140A3	32.514	70mA	5ns	1.35	1.22	1.17	.90
325729CE	JVP-325729	40.0	70mA	5ns	1.35	1.22	1.17	.90
325737CE	JVP-325737	48.0	70mA	5ns	1.35	1.22	1.17	.90

Other Manufacturers

325462CE	JVP-325462	1.0	15mA	10ns	\$1.35	\$1.22	\$.96	\$.90
325471CE	JVP-325471	1.2288	15mA	10ns	1.35	1.22	.96	.90
325489CE	JVP-325489	1.8432	15mA	10ns	1.39	1.29	1.01	.94
102779CE	OSC10H	10.0	45mA	6ns	1.45	1.05	.96	.79
325497CE	JVP-325497	2.0	25mA	5ns	1.35	11.22	.96	.90
325745CE	JVP-325745	64.0	70mA	5ns	1.35	1.22	1.10	1.01

30-Day Money-Back Guarantee

If you're not completely satisfied with your purchase, simply return the product within 30 days for a refund or exchange.

Details on page 284.

We have tried to cover all the most popular frequencies and packages in the market place for you. If we have missed any, please let us know and we will do our best to add it to our next catalog. Email us 24/7 at NewProducts@Jameco.com.

Kits Include the Most Popular Components and a Cabinet with Extra Drawers for Your Customized Expansion

Each kit includes a 20-drawer component cabinet (319599CE), 20 clear plastic drawers (319601CE), 20 clear dividers (319610CE), 30 adhesive labels for drawers to identify parts in kit, and all the electronic components listed in each kit.



81875CE (Capacitor Kit)

20-drawer component cabinet with every kit!

- Cabinet size: 6.0"L x 15.0"W x 7.9"H
- Cabinet: ABS-Black
- Drawer size: 5.5"L x 2.7"W x 1.5"H
- Weight: 4.6 to 6.4 lbs.
- Cabinet is wall-mountable or free standing

Each Refill Package includes all Electronic Components listed in each kit; each type is separately packaged.

Need a refill?
Just call
1-800-831-4242



81832CE (Resistor Kit)

Radial Electrolytic Capacitor Kit

Includes 240 pcs. (15 values) $\pm 20\%$ Radial Electrolytic Capacitors

10 each	10 each	20 each	20 each	20 each
100 μ F @ 50V	1000 μ F @ 16V	1 μ F @ 50V	3.3 μ F @ 50V	22 μ F @ 50V
220 μ F @ 25V	2200 μ F @ 25V	1 μ F @ 100V	4.7 μ F @ 50V	47 μ F @ 50V
470 μ F @ 25V	3300 μ F @ 25V	2.2 μ F @ 50V	10 μ F @ 50V	100 μ F @ 25V
Part No.	Description	Wt. (lbs.)	1	10
81867CE	240 pcs. Radial Capacitor kit	5.3	\$29.95	\$26.95
130331CE	Refill for 81867CE (240 pcs.)	0.5	17.95	16.49

SAVE \$11

Axial Electrolytic Capacitor Kit

Includes 140 pcs. (10 values) $\pm 20\%$ Axial Electrolytic Capacitors

10 each	10 each	10 each	20 each	20 each
47 μ F @ 50V	220 μ F @ 50V	1000 μ F @ 25V	1 μ F @ 50V	10 μ F @ 50V
100 μ F @ 50V	470 μ F @ 50V	2200 μ F @ 16V	4.7 μ F @ 50V	2.2 μ F @ 50V
Part No.	Description	Wt. (lbs.)	1	10
81875CE	140 pcs. Axial Capacitor kit	5.3	\$37.95	\$34.15
130340CE	Refill for 81875CE (140 pcs.)	0.6	24.95	22.49

SAVE \$12

Mylar Capacitor Kit

Includes 280 pcs. (10 values) 100V $\pm 10\%$ Mylar Capacitors

10 each	10 each	10 each	10 each	100 each
.001 μ F	.022 μ F	.047 μ F	.47 μ F	.01 μ F
.0047 μ F	.033 μ F	.22 μ F	1 μ F	.1 μ F
Part No.	Description	Wt. (lbs.)	1	10
81883CE	280 pcs. Mylar Capacitor kit	5.1	\$37.95	\$34.15
130358CE	Refill for 81883CE (280 pcs.)	0.3	19.95	17.95

SAVE \$11

Dipped Tantalum Capacitor Kit

Includes 150 pcs. (15 values) $\pm 20\%$ Dipped Tantalum Capacitors

10 each	10 each	10 each	10 each	10 each
.1 μ F @ 35V	1 μ F @ 25V	3.3 μ F @ 35V	10 μ F @ 16V	22 μ F @ 16V
.22 μ F @ 35V	1 μ F @ 35V	4.7 μ F @ 35V	10 μ F @ 35V	33 μ F @ 25V
.47 μ F @ 35V	2.2 μ F @ 16V	6.8 μ F @ 35V	15 μ F @ 25V	47 μ F @ 25V
Part No.	Description	Wt. (lbs.)	1	10
81841CE	150 pcs. Tantalum Capacitor kit	4.8	\$79.95	\$71.95
130260CE	Refill for 81841CE (150 pcs.)	0.3	59.95	53.95

SAVE \$31

Ceramic Disc Capacitor Kit

Includes 520 pcs. (10 values) 50V $\pm 20\%$ Ceramic Disc Capacitors

20 each	20 each	20 each	100 each	100 each
10pF	47pF	470pF	.022 μ F	.01 μ F
22pF	100pF	.001 μ F	.047 μ F	.1 μ F
Part No.	Description	Wt. (lbs.)	1	10
81859CE	520 pcs. Ceramic Capacitor kit	5.0	\$35.95	\$32.35
130232CE	Refill for 81859CE (520 pcs.)	0.3	17.95	16.49

SAVE \$16

Monolithic Ceramic Capacitor Kit

Includes 280 pcs. (10 values) 50V $\pm 20\%$ Monolithic Ceramic Capacitors

10 each	10 each	10 each	10 each	100 each
22pF	.001 μ F	.047 μ F	.47 μ F	.01 μ F
100pF	.0022 μ F	.22 μ F	1 μ F	.1 μ F
Part No.	Description	Wt. (lbs.)	1	10
171475CE	280 pcs. Monolithic Capacitor kit	5.0	\$29.95	\$26.95
171483CE	Refill for 171475CE (280 pcs.)	0.3	17.95	15.95

SAVE \$11

1/8-Watt Carbon Film Resistor Kit

Includes 540 pcs. (30 values) 1/8-watt 5% Resistors

10 each	10 each	10 each	10 each	10 each	10 each	50 each	50 each
10 Ω	330 Ω	1.5k Ω	3.3k Ω	15k Ω	47k Ω	100 Ω	4.7k Ω
47 Ω	390 Ω	2k Ω	5.1k Ω	22k Ω	470k Ω	220 Ω	10k Ω
150 Ω	470 Ω	2.2k Ω	5.6k Ω	27k Ω	1M Ω	1k Ω	100k Ω
270 Ω	680 Ω	2.7k Ω	6.8k Ω	33k Ω	10M Ω		
Part No.	Description	Wt. (lbs.)	1	10			
108329CE	540 pcs. 1/8-watt Resistor kit	4.9	\$24.95	\$22.49			
108302CE	Refill for 108329CE (540 pcs.)	0.2	12.95	11.49			

1/4-Watt Carbon Film Resistor Kit

Includes 540 pcs. (30 values) 1/4-watt 5% Resistors

10 each	10 each	10 each	10 each	10 each	10 each	50 each	50 each
10 Ω	330 Ω	1.2k Ω	2.7k Ω	15k Ω	47k Ω	100 Ω	4.7k Ω
47 Ω	390 Ω	1.5k Ω	3.3k Ω	20k Ω	470k Ω	220 Ω	10k Ω
150 Ω	470 Ω	2k Ω	5.1k Ω	22k Ω	1M Ω	1k Ω	100k Ω
270 Ω	680 Ω	2.2k Ω	5.6k Ω	33k Ω	10M Ω		
Part No.	Description	Wt. (lbs.)	1	10			
81832CE	540 pcs. 1/4-watt Resistor kit	4.9	\$27.95	\$24.95			
103165CE	Refill for 81832CE (540 pcs.)	0.2	12.95	11.49			

1/2-Watt Carbon Film Resistor Kit

Includes 540 pcs. (30 values) 1/2-watt 5% Resistors

10 each	10 each	10 each	10 each	10 each	10 each	50 each	50 each
10 Ω	330 Ω	1.5k Ω	3.3k Ω	15k Ω	47k Ω	100 Ω	4.7k Ω
47 Ω	390 Ω	2k Ω	5.1k Ω	22k Ω	470k Ω	220 Ω	10k Ω
150 Ω	470 Ω	2.2k Ω	5.6k Ω	27k Ω	1M Ω	1k Ω	100k Ω
270 Ω	680 Ω	2.7k Ω	6.8k Ω	33k Ω	10M Ω		
Part No.	Description	Wt. (lbs.)	1	10			
107879CE	540 pcs. 1/2-watt Resistor kit	5.1	\$29.95	\$26.95			
107852CE	Refill for 107879CE (540 pcs.)	0.4	14.95	13.49			

1/2-Watt Single Turn Cermet Pot Kit

See page 76 (63P Series) for photos and specs.

Includes 100 pcs. (10 values) 1/2-watt Linear Taper Potentiometer

10 each	10 each	10 each	10 each	10 each
63P500 Ω	63P5k Ω	63P500k Ω	63P1k Ω	63P50k Ω
63P2k Ω	63P20k Ω	63P1M Ω	63P10k Ω	63P100k Ω
Part No.	Description	Wt. (lbs.)	1	10
85032CE	100 pcs. single turn Pot kit	4.9	\$65.95	\$59.35

SAVE \$29

3/4-Watt 15 Turn Cermet Pot Kit

See page 76 (43P Series) for photos and specs.

Includes 100 pcs. (10 values) 3/4-watt Linear Taper Potentiometer

10 each	10 each	10 each	10 each	10 each
43P500 Ω	43P5k Ω	43P500k Ω	43P1k Ω	43P50k Ω
43P2k Ω	43P20k Ω	43P1M Ω	43P10k Ω	43P100k Ω
Part No.	Description	Wt. (lbs.)	1	10
85041CE	100 pcs. 15 turn Pot kit	4.9	\$82.95	\$74.65

SAVE \$32

Individually Sold Potentiometers
See pages 74-78



Belden Coaxial Cables



Compare Belden coaxial cables with those from the other companies who produce them and you will discover the obvious: Belden has no equal. That's because Belden coaxial cables are time-tested for performance, performance that guarantees outstanding value. Belden guarantees this level of performance because every cable is tested with equipment that simulates every known environmental and electrical performance condition. As a result, Belden coaxial cable can be counted on for positive, reliable, and trouble-free operation. Engineered in a wide selection of sizes and materials, with each offering the benefits needed for physical, electrical and cost-requirement applications. Cable choices include broadband, standard analog, precision video for analog and digital, and more. For our complete line of Belden products, please visit www.Jameco.com/Belden.

50Ω Transmission and Computer Cable RG8/U Type

16 AWG stranded (19x29) .058" bare copper

- 95% bare copper braid shield
- Foam polyethylene insulation and black PVC jacket
- Nominal capacitance: 81.4pF/m • Nominal impedance: 50Ω
- Nominal outer diameter: .042" • Color: black

**SALE**

Part No.	Product No.	Description	1	5	10
234254CE	9258-100-10	100' reel	\$59.99	\$54.99	\$49.99
234256CE	9258-500-10	500' reel	247.89	224.95	213.69
234255CE	9258-1000-10	1000' reel	429.99	399.99	384.99
234258CE	9258-U500-10	500' unreel box	247.89	224.95	213.69
234257CE	9258-U1000-10	1000' unreel box	429.99	399.99	384.99

13 AWG stranded (7 x 21) .085" bare copper

- 97% bare copper braid shield
- Polyethylene insulation and black PVC jacket
- Nominal capacitance: 93.5pF/m • Nominal impedance: 52Ω
- Nominal outer diameter: .405" • Color: black



Part No.	Product No.	Description	1	5	10
232848CE	8237-100-10	100' reel	\$119.99	\$109.19	\$99.99
232856CE	8237-500-10	500' reel	454.59	413.25	396.75
232864CE	8237-1000-10	1000' reel	820.79	752.49	694.55

11 AWG stranded (7 x 19) .108" bare copper

- 97% bare copper braid shield
- Foam polyethylene insulation and black PVC jacket
- Nominal capacitance: 85.3pF/m • Nominal impedance: 50Ω
- Nominal outer diameter: .285" • Color: black



Part No.	Product No.	Description	1	5	10
232750CE	8214-100-10	100' reel	\$125.79	\$114.35	\$104.82
232768CE	8214-500-10	500' reel	549.99	499.99	457.99
232776CE	8214-1000-10	1000' reel	918.19	847.49	786.99

50Ω Transmission and Computer Cable RG58A/U Type

20 AWG solid .032" bare copper

- 95% tinned copper braid shield
- Polyethylene insulation and black PVC jacket
- Nominal capacitance: 93.5pF/m • Nominal impedance: 51.5Ω
- Nominal outer diameter: .193" • Color: black



Part No.	Product No.	Description	1	5	10
232872CE	8240-100-10	100' reel	\$42.15	\$38.21	\$34.73
232881CE	8240-500-10	500' reel	144.75	131.55	120.59
232899CE	8240-1000-10	1000' reel	263.09	241.19	222.65
234175CE	8240-U500-10	500' unreel box	144.69	131.29	101.63
234174CE	8240-U1000-10	1000' unreel box	289.39	262.59	249.49

20 AWG stranded (19 x 33) .035" tinned copper

- 95% tinned copper braid shield
- Polyethylene insulation and black PVC jacket
- Nominal capacitance: 101pF/m • Nominal impedance: 50Ω
- Nominal outer diameter: .192" • Color: black



Part No.	Product No.	Description	1	5	10
232936CE	8259-100-10	100' reel	\$46.99	\$42.65	\$38.75
232944CE	8259-500-10	500' reel	152.09	131.49	119.45
232952CE	8259-1000-10	1000' reel	274.79	251.89	232.49

20 AWG stranded (19 x 32) .037" tinned copper

- 96% tinned copper braid shield
- Foam polyethylene insulation and black PVC jacket
- Nominal capacitance: 86.9pF/m • Nominal impedance: 53.5Ω
- Nominal outer diameter: .194" • Color: black



Part No.	Product No.	Description	1	5	10
232813CE	8219-100-10	100' reel	\$39.99	\$37.49	\$34.99
232821CE	8219-500-10	500' reel	181.25	164.75	150.99
232830CE	8219-1000-10	1000' reel	329.49	302.05	278.79

50Ω Transmission and Computer Cable RG174/U Type

26 AWG stranded (7 x 34) .019" bare copper-covered steel

- 90% tinned copper braid shield
- Polyethylene insulation and black PVC jacket
- Nominal capacitance: 101pF/m • Nominal impedance: 50Ω
- Nominal outer diameter: .110" • Color: black



Part No.	Product No.	Description	1	5	10
232784CE	8216-100-10	100' reel	\$35.45	\$32.18	\$29.23
232792CE	8216-500-10	500' reel	114.19	103.64	94.16
232805CE	8216-1000-10	1000' reel	215.99	203.97	193.77

75Ω Broadband Coax CATV Cable RG6/U Type

18 AWG solid .040" bare copper-covered steel

- Duobond® II +60% aluminum braid shield
- Gas injected foam polyethylene insulation and black PVC jacket
- Nominal capacitance: 53.1pF/m • Nominal impedance: 75Ω
- Nominal outer diameter: .270" • Color: black



Part No.	Product No.	Description	1	5	10
233269CE	9116-100-10	100' reel	\$20.89	\$17.56	\$16.68
233277CE	9116-500-10	500' reel	57.19	50.07	47.57
233285CE	9116-1000-10	1000' reel	102.55	97.43	92.56

To Find Additional Belden Coax Products, Visit www.Jameco.com/Prod/BeldenCoax

18 AWG solid .040" bare copper-covered steel

- Duobond® IV quad shield
- Gas injected foam polyethylene insulation and black PVC jacket
- Nominal capacitance: 53.1pF/m • Nominal impedance: 75Ω
- Nominal outer diameter: .298"

**NEW**

Part No.	Product No.	Description	1	5	10
232733CE	1189A-100-10	100' reel (black)	\$23.99	\$20.14	\$18.13
233402CE	1189A-500-10	500' reel (black)	83.99	67.87	64.48
232741CE	1189A-1000-10	1000' reel (black)	152.55	144.93	137.68
234052CE	1189A-U500-10	500' unreel box (black)	83.99	67.87	64.48
447110CE	1189A-U1000-10	1000' unreel box (black)	126.39	112.82	103.34
447101CE	1189A-U1000-09	1000' unreel box (white)	126.39	112.82	103.34

♣ These products ship from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

Precision Video Cable for Analog and Digital RG6 Type

18 AWG solid .040" bare copper

- DuoFoil® +95% tinned copper braid shield
- Gas injected foam HDPE insulation, PVC jacket
- Nominal capacitance: 53.1pF/m • Nominal impedance: 75Ω
- Nominal outer diameter: .275"

**NEW**

Part No.	Product No.	Description	1	5	10
234099CE	1694A-100-10	100' reel (black)	\$66.49	\$55.86	\$53.07
234155CE	1694A-500-10	500' reel (black)	199.99	162.90	150.90
234154CE	1694A-1000-10	1000' reel (black)	403.75	327.78	315.95
447241CE	1694A-1000-02	1000' reel (red)	428.15	387.87	347.60
447259CE	1694A-1000-04	1000' reel (yellow)	417.05	387.87	347.60
447267CE	1694A-1000-06	1000' reel (blue)	417.05	387.87	347.60
447275CE	1694A-1000-08	1000' reel (gray)	324.49	304.79	301.20
447283CE	1694A-1000-09	1000' reel (white)	324.49	304.79	301.20

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More Belden Hook-Up Wire

- Type B (MIL-W-16878/1-PVC)
- UL AWM type 1213, 1371, 3173, 1015, 1007 & 1569
- Type MW (MIL-W-76C-PVC) • Test Prod Wire

NEW ON THE WEB

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See Complete Hook-Up Wire Offering at www.Jameco.com/Prod/BeldenHookup



Belden Coaxial Cables (Continued)

Direct Broadcast Satellite RG6 Type Cable

18 AWG solid .040" bare copper

- DuoBond® II +60% aluminum braid
- Gas injected foam polyethylene insulation, PVC jacket
- Nominal capacitance: 16.2pF/m • Nominal impedance: 75Ω

Part No.	Product No.	Description	1	5	10
234156CE	1829AC-100-10	100' reel (black)	\$14.99	\$13.99	\$12.99
234177CE	1829AC-500-10	500' reel (black)	54.99	52.24	49.63
234157CE	1829AC-1000-10	1000' reel (black)	106.99	96.29	91.48

To Find Additional Belden Coax Products, Visit www.Jameco.com/Prod/BeldenCoax



Belden Coaxial Cables (Continued)

RG59 Type Security Coaxial Cable

20 AWG solid bare copper conductor

- 95% bare copper braid shield • Nominal impedance: 75Ω
- Foam polyolefin insulation and black UV resistant PVC jacket
- Impregnated with CoreGuard® flame retardant flooding compound
- Shielded or flooded for use in underground ducts
- Surveillance and CCTV applications • Color: black

Part No.	Product No.	Description	1	5	10
234158CE	543945-100-10	100' reel	\$15.45	\$14.68	\$13.95
234160CE	543945-500-10	500' reel	64.95	61.98	58.92
234159CE	543945-1000-10	1000' reel	139.99	132.27	125.66

Standard Analog Video Cable 75Ω Miniature Coax

27 AWG stranded (7x35) .017" bare copper-covered steel

- Polyethylene insulation and black PVC jacket
- Nominal capacitance: 67.3pF/m • Color: black
- Nominal impedance: 75Ω • Nominal outer diameter: .100"

Part No.	Product No.	Description	1	5	10
234173CE	8218-U500-10	500' unreel box	\$175.85	\$159.56	\$144.99
234172CE	8218-U1000-10	1000' unreel box	363.95	330.20	313.69

Composite Data, Audio, Video, Security and Control Cable

Two RG6 18 AWG solid bare copper conductors and two 4-pair UTP 24 AWG solid bare copper conductors

- Gas injected FPR insulation coax cable, polyolefin insulation CAT5e cable and F-R PVC jackets
- Component nominal outer diameter: .200" • Banana Peel™ jacketless cables

Part No.	Product No.	Description	1	5	10
234163CE	7913S-500	500' reel (black)	\$242.99	\$229.99	\$227.99
234162CE	7913S-1000	1000' reel (black)	461.79	449.43	437.08

75Ω Standard Analog Video Cable RG59/U Type

23 AWG solid .023" bare copper

- 95% bare copper braid shield
- Polyethylene insulation and black PVC jacket • Nominal outer diameter: .242"
- Nominal capacitance: 67.3pF/m • Nominal impedance: 75Ω • Color: black

Part No.	Product No.	Description	1	5	10
232901CE	8241-100-10	100' reel	\$44.39	\$41.69	\$38.44
232910CE	8241-500-10	500' reel	125.25	117.53	108.38
232928CE	8241-1000-10	1000' reel	224.15	214.17	205.39
447460CE	8241-010-U1000	1000' unreel box	199.25	178.19	167.68
447478CE	8241-010-U500	500' unreel box	92.59	86.39	85.09

22 AWG stranded (7 x 30) .030" bare copper

- 95% bare copper braid shield
- Foam polyethylene insulation and black PVC jacket
- Nominal capacitance: 56.7pF/m • Nominal impedance: 75Ω
- Nominal outer diameter: .241" • Color: black

Part No.	Product No.	Description	1	5	10
232653CE	9259-100-10	100' reel	\$50.25	\$46.95	\$43.25
232661CE	9259-500-10	500' reel	135.85	123.44	120.99
232670CE	9259-1000-10	1000' reel	264.49	254.99	241.89
234070CE	9259-U500-10	500' unreel box	135.85	123.44	120.99
234069CE	9259-U1000-10	1000' unreel box	264.49	254.99	241.89

Broadband Coax (Headend/Video Cables)

20 AWG solid .031" bare copper

- Nominal capacitance 68.9pF/m • Color: black
- Nominal outer diameter: .305" • Nominal impedance: 75Ω
- 98% tinned copper double braid shield • Polyethylene insulation and jacket

Part No.	Product No.	Description	1	5	10
232961CE	8281-100-10	100' reel	\$85.49	\$72.06	\$68.46
232979CE	8281-500-10	500' reel	349.99	299.99	269.75
232987CE	8281-1000-10	1000' reel	656.49	559.99	535.49

20 AWG solid .032" solid bare copper

- Duofoil® +95% tinned copper braid shield
- Gas injected foam HDPE insulation and PVC jacket
- Nominal capacitance: 53.5pF/m • Nominal impedance: 75Ω
- Nominal outer diameter: .234"

Part No.	Product No.	Description	1	5	10
234086CE	1505A-100-10	100' reel (black)	\$51.05	\$42.89	\$40.75
234088CE	1505A-500-10	500' reel (black)	172.49	140.49	139.99
234087CE	1505A-1000-10	1000' reel (black)	339.99	280.99	279.75
447136CE	1505A-1000-04	1000' reel (yellow)	265.35	245.99	245.39

♣ These products ship from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.



Bus Bar Hook Up Wire

In accordance with performance requirements of Federal Specs. QQ-W343G.

- Solid tinned copper, single conductor
- Nominal outer diameter: 24 AWG – .021"; 22 AWG – .026"; 20 AWG – .033"

Part No.	Product No.	Description	1	5	10
234168CE	8022-100	24 AWG, 100' reel	\$10.49	\$9.49	\$8.63
234169CE	8022-1000	24 AWG, 1000' reel	57.29	46.31	42.75
234166CE	8021-100	22 AWG, 100' reel	11.65	9.39	8.49
234167CE	8021-1000	22 AWG, 1000' reel	70.69	60.26	55.73
234164CE	8020-100	20 AWG, 100' reel	13.29	11.67	10.55
234165CE	8020-1000	20 AWG, 1000' reel	93.69	79.85	73.84

**Belden Speaker Cables**

These speaker cables are used to connect receivers or power amplifiers to speakers & are also used for the internal wiring of the speakers. Belden speaker cables utilize only high-conductivity copper produced by a process called Electrolytic Tough Pitch (ETP). This refining process produces a conductor that is 99.95% pure copper resulting in high-conductivity per ASTM B115.

Electrolytic Tough Pitch (ETP) High Conductivity Copper Speaker Cables

- 2-conductor stranded
- Clear PVC jacket
- Parallel (1) tinned (1) bare
- PVC insulation

**18 AWG Stranded (16 x 30)**

Part No.	Product No.	Description	1	5	10
232573CE	9708-100-368	100' reel	\$27.15	\$24.65	\$22.59
232581CE	9708-500-368	500' reel	122.95	116.45	109.99
232590CE	9708-1000-368	1000' reel	229.65	219.41	210.42
234153CE	9708-U500-368	500' unreel box	122.95	116.45	109.99
234080CE	9708-U1000-368	1000' unreel box	229.65	219.41	210.42

14 AWG Stranded (19 x 27)

232602CE	9717-100-368	100' reel	\$65.49	\$55.09	\$49.45
233429CE	9717-500-368	500' reel	255.69	242.25	218.04
232611CE	9717-1000-368	1000' reel	459.29	433.66	390.41

12 AWG Stranded (65 x 30)

232629CE	9718-100-368	100' reel	\$126.35	\$106.13	\$100.82
232637CE	9718-500-368	500' reel	405.25	358.42	310.77
232645CE	9718-1000-368	1000' reel	849.99	799.99	749.99

**Belden Hook-up Wire****UL AWM Style 1007**

Belden hook-up and lead wire products are manufactured in a variety of materials, sizes, and designs to meet rigid industry and government specifications. Used in a wealth of applications including inter-connection circuits, internal wiring of computer and data processing equipment, appliances, and automotive. AWM, or Appliance Wiring Material, is Underwriter Laboratories' recognized covering of insulated wires and cables intended for internal wiring of appliances and equipment.

- Rated 105°C, 300V; 600V peak for electronic circuits and electrical equipment
- Tinned copper
- PVC insulated
- Increments of 100' reels



Use the color code chart below to replace the "xx" when ordering

01 – Brown	02 – Red	03 – Orange	04 – Yellow	05 – Green
07 – Violet	08 – Gray	09 – White	10 – Black	13 – Dark blue

e.g. 234601CE – 2346 is the Jameco designation for 28 AWG stranded wire and 01 is for color brown

Part No.	Product No.	Description	1	5	10
2346xxCE	9928-100-xx	28 AWG (7 x 36) stranded	\$11.45	\$9.35	\$8.62
2345xxCE	9926-100-xx	26 AWG (7 x 34) stranded	12.29	11.13	10.10
2344xxCE	9923-100-xx	24 AWG (7 x 32) stranded	12.89	11.72	10.61
2343xxCE	9921-100-xx	22 AWG (7 x 30) stranded	14.79	13.51	12.26
2342xxCE	9919-100-xx	20 AWG (7 x 28) stranded	18.29	16.59	15.10
2341xxCE	9918-100-xx	18 AWG (16 x 30) stranded	20.39	19.19	16.79
2340xxCE	9916-100-xx	16 AWG (26 x 30) stranded	28.29	22.99	21.25

**Belden Hook-Up Wire****8412 – Non-Paired Two Conductor, Low-Impedance Cable**

- 2-conductor 20 AWG (.037" thick)
- 26 x 34 stranding
- Color: black
- Nominal overall diameter – .262"
- Ethylene propylene monomer rubber insulation (.083" thick)
- Outer braid shield, outer cotton wrap shield separator

NEW
ON THE WEB

These products ship from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

See Complete Belden Hook-up Wire at www.Jameco.com/Prod/BeldenHookup

**Non-Paired Cables**NEW
ON THE WEB**5100UE – Audio, Alarm & Security Cable**

- 14 AWG (19 x 27) bare copper
- PVC jacket
- 2 conductor
- Nominal inductance: .15µH/ft.
- Nominal DCR: 2.53Ω/1000ft.
- Color: gray

**5200UE – Audio, Alarm & Security Cable**

- 16 AWG (19 x 29) bare copper
- PVC jacket
- 2 conductors
- Nominal inductance: .15µF/ft.
- Nominal DCR: 4.2Ω/1000ft.
- Color: gray

**5302FE – New Generation®**

- 18 AWG (7 x 26) bare copper
- Nominal Capacitance: 38µF/ft.
- 4 conductor
- PVC jacket
- Nominal DCR: 6.5Ω/1000ft.

**1860A – Audio Wire and Cable**

- 12 AWG (19 x 25) ETP high-conductivity bare copper
- 2 conductor
- Color: black and natural
- Nominal capacitance: .16µF/ft.
- Nominal DCR: 1.6Ω/1000ft.

**8489 – Audio, Control and Instrumentation**

- 18 AWG (19 x 30) tinned copper
- 4 conductor
- PVC jacket
- Nominal capacitance @ 1kHz: 26pF/ft.
- Nominal DCR: 6.3Ω/1000ft.
- Max. operating voltage: 300V_{RMS}



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See Complete Belden Non-Paired Cable at www.Jameco.com/Prod/BeldenNonPaired

**Paired Cables****7921A – DataTuff® Category 5e Cable**NEW
ON THE WEB

- 24 AWG solid bare copper
- 4 pairs
- Industrial PVC jacket
- 24 AWG (7 x 32) tinned copper outer shield drain wire
- Nominal mutual capacitance: 15pF/ft.
- Max. conductor DCR: 9.38Ω/1000ft.
- Max. operating voltage: 300V_{RMS}

**8107/8110 – Low Capacitance Computer Cable for EIA-232/422**

- 24 AWG (7 x 32) twisted pairs with 24 AWG stranded tinned copper wire
- Overall Beldfoil® (100% coverage) and tinned copper braid shield (65% coverage)
- 7 & 10 pairs
- PVC jacket
- Nominal impedance: 100Ω
- Nominal DCR: 24Ω/1000ft.
- Nominal capacitance (conductor-conductor): 12.5pF/ft.

**8471 – Audio Control and Instrumentation Cable**

- 1 pair twisted
- PVC insulation
- 16 AWG (19 x 29) tinned copper
- Nominal inductance: .1184µH/ft.
- Nominal DCR: 4.49Ω/1000ft.
- Nominal capacitance: 16.4pF/ft.
- Max. operating voltage: 300V_{RMS}

**7881A – Data and Voice Cable**

- 23 AWG solid bare copper twisted pair
- 4 pairs
- Nominal mutual capacitance @ 1kHz: 15pF/ft.
- Max. conductor DCR: 8.2Ω/100m
- Max. operating voltage: 300V_{RMS}



These products ship from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

See Complete Belden Paired Cable at www.Jameco.com/Prod/BeldenPaired



Belden cable products are manufactured in a variety of gauge sizes, dimensions, insulation materials, shielding configurations, and jacketing materials including PVC, Plenum and High-Temperature versions to meet the technical requirements of many different types of systems. Paired cables allow balanced signal transmission, which results in lower crosstalk through common mode rejection. Due to the improved noise immunity of twisted pairs, they generally permit higher data speeds than other multi-conductor cables. For our complete line of Belden products, please visit www.jameco.com/Belden.

• Chrome PVC jacket • Tinned copper • Twisted pairs • Tinned copper drain wire • Overall 100% BELDFOIL® shield (for shielded cables)

High-Temperature Control, Instrumentation Cables and Computer Cables

24 AWG stranded (7 x 32) shielded with 24 AWG stranded TC drain wire

- Semi-rigid PVC insulation • Nominal DCR: 24Ω/m
- Nominal impedance: 75Ω • Color: chrome



9501 Series



9502 Series



9503 Series



9504 Series

Part No.	Product No.	No. of Pairs	Description	1	5	10
232709CE	9501-100-60	1	100' reel	\$17.45	\$15.85	\$14.42
232717CE	9501-500-60	1	500' reel	67.45	63.86	60.32
232725CE	9501-1000-60	1	1000' reel	127.75	120.64	111.91
234073CE	9501-U500-60	1	500' unreel box	67.45	63.86	60.32
234072CE	9501-U1000-60	1	1000' unreel box ..	127.75	120.64	113.54
232451CE	9502-100-60	2	100' reel	27.39	24.92	22.64
232469CE	9502-500-60	2	500' reel	114.35	103.93	95.27
232477CE	9502-1000-60	2	1000' reel	207.85	190.56	175.88
234075CE	9502-U500-60	2	500' unreel box	114.35	103.93	95.27
234074CE	9502-U1000-60	2	1000' unreel box ..	199.99	189.59	175.89
232485CE	9503-100-60	3	100' reel	28.75	24.42	22.72
232493CE	9503-500-60	3	500' reel	137.99	130.72	123.48
232506CE	9503-1000-60	3	1000' reel	261.45	246.93	229.06
234077CE	9503-U500-60	3	500' unreel box	137.99	130.72	123.49
234076CE	9503-U1000-60	3	1000' unreel box ..	261.45	246.93	234.59
232514CE	9504-100-60	4	100' reel	32.99	27.95	27.15
232522CE	9504-500-60	4	500' reel	168.69	159.79	150.92
232531CE	9504-1000-60	4	1000' reel	304.39	287.47	279.99
232549CE	9505-100-60	5	100' reel	45.49	36.85	34.28
232557CE	9505-500-60	5	500' reel	192.25	174.78	160.19
232565CE	9505-1000-60	5	1000' reel	370.55	339.72	313.56
234078CE	9505-U500-60	5	500' unreel box	188.89	178.95	168.99
234079CE	9505-U1000-60	5	1000' unreel box ..	357.89	337.99	321.09

Low Capacitance Computer Cables

24 AWG stranded (7 x 32) shielded with 24 AWG stranded TC drain wire

- Datalene® insulation, chrome PVC jacket
- Nominal DCR: 24Ω/m • Color: chrome
- Nominal impedance: 100Ω



Part No.	Product No.	No. of Pairs	Description	1	5	10
234178CE	1419A-100-60	2	100' reel	\$24.99	\$22.49	\$19.99
234085CE	1419A-500-60	2	500' reel	99.49	91.19	78.09
234084CE	1419A-1000-60	2	1000' reel	182.75	167.49	154.59

Audio, Control, and Instrumentation Cables Non-Plenum

22 AWG stranded (7 x 30) shielded with 22 AWG stranded TC drain wire

- Polypropylene insulation • Paper wrap
- Black PVC jacket
- Nominal capacitance: 111pF/m
- Nominal outer diameter: .138"



Part No.	Product No.	No. of Pairs	Description	1	5	10
233111CE	8451-100-10	1	100' reel (black)	\$19.99	\$18.59	\$16.99
233120CE	8451-500-10	1	500' reel (black)	90.95	82.68	75.79
233138CE	8451-1000-10	1	1000' reel (black)	163.59	149.99	138.45
234062CE	8451-U500-10	1	500' unreel box (black) ..	90.95	82.69	75.79
234061CE	8451-U1000-10	1	1000' unreel box (blk) ..	163.59	149.99	138.43
447531CE	8451-U1000-08A	1	1000' unreel box (gray) ..	113.05	111.57	110.85

♣ This product ships from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

Audio, Control, and Instrumentation Cables Non-Plenum (Cont'd)

22 AWG stranded (7 x 30) shielded with 22 AWG stranded TC drain wire

- Polypropylene insulation • PVC jacket
- Nominal capacitance: 111pF/m
- Nominal outer diameter: .135"
- Color: gray



Part No.	Product No.	No. of Pairs	Description	1	5	10
232688CE	9451-100-08	1	100' reel	\$24.99	\$22.49	\$19.99
232696CE	9451-500-08	1	500' reel	89.99	79.99	72.99
233411CE	9451-T1000-08	1	1000' reel	146.49	141.69	134.60

22 AWG stranded (7 x 30) shielded with 22 AWG stranded TC drain wire

- Polyethylene insulation and chrome PVC jacket
- Nominal capacitance: 79pF/m
- Nominal outer diameter: .175"
- Color: chrome



Part No.	Product No.	No. of Pairs	Description	1	5	10
234190CE	8761-500-60	1	500' reel	\$99.25	\$89.99	\$81.79
234189CE	8761-1000-60	1	1000' reel	180.39	165.39	152.66
234192CE	8761-U500-60	1	500' unreel box	94.99	84.99	79.99
234191CE	8761-U1000-60	1	1000' unreel box ..	171.65	146.95	139.99

22 AWG stranded (7 x 30) shielded with 24 AWG stranded TC drain wire

- Polypropylene insulation
- Nominal capacitance: 115pF/m
- Nominal outer diameter: .168"
- Color: chrome



Part No.	Product No.	No. of Pairs	Description	1	5	10
234179CE	8723-100-60	2	100' reel	\$24.99	\$22.49	\$19.99
234181CE	8723-500-60	2	500' reel	114.15	103.55	94.09
234180CE	8723-1000-60	2	1000' reel	207.49	190.25	175.59
234183CE	8723-U500-60	2	500' unreel box	114.15	103.55	94.09
234182CE	8723-U1000-60	2	1000' unreel box ..	211.99	200.39	189.29

20 AWG stranded (7 x 28) unshielded

- Chrome PVC jacket
- Color: chrome



Part No.	Product No.	No. of Pairs	Description	1	2	5
234171CE	8205-U500-60	1	500' unreel box	\$71.59	\$59.25	\$56.20
234170CE	8205-U1000-60	1	1000' unreel box	135.25	123.99	114.45

20 AWG stranded (7 x 28) shielded with 22 AWG stranded TC drain wire

- Semi-rigid PVC insulation and overall chrome PVC jacket
- Nominal capacitance: 180pF/m
- Nominal outer diameter: .300"
- Color: chrome



Part No.	Product No.	No. of Pairs	Description	1	5	10
234259CE	9402-100-60	2	100' reel	\$64.99	\$62.49	\$59.99
234261CE	9402-U500-60	2	500' unreel box	299.99	279.99	259.99
234260CE	9402-1000-60	2	1000' reel	579.99	531.25	490.35

18 AWG stranded (16 x 30) shielded with 20 AWG stranded TC drain wire

- Tinned copper, twisted pair
- Polyethylene insulation with chrome PVC jacket
- Nominal capacitance: 79pF/m
- Nominal outer diameter: .222"
- Color: chrome



Part No.	Product No.	No. of Pairs	Description	1	5	10
234184CE	8760-100-60	1	100' reel	\$34.99	\$32.49	\$29.99
234186CE	8760-500-60	1	500' reel	124.75	113.19	102.85
234185CE	8760-1000-60	1	1000' reel	231.19	219.05	208.09
234188CE	8760-U500-60	1	500' unreel box	99.99	94.99	91.99
234187CE	8760-U1000-60	1	1000' unreel box ..	231.19	219.05	207.99

Belden COT Paired Line Level Analog Audio Cable

20 AWG stranded (7 x 28) with 20 AWG stranded TC drain wire

- Polyethylene insulation with chrome PVC jacket
- Nominal capacitance: 89pF/m
- Nominal outer diameter: .204"
- Color: chrome



Part No.	Product No.	No. of Pairs	Description	1	5	10
234194CE	8762-100-60	1	100' reel	\$23.39	\$21.95	\$21.19
234196CE	8762-500-60	1	500' reel	108.59	102.86	97.15
234195CE	8762-1000-60	1	1000' reel	205.69	194.28	182.86
234198CE	8762-U500-60	1	500' unreel box	108.59	102.86	97.15
234197CE	8762-U1000-60	1	1000' unreel box ..	205.69	194.28	182.86

16 AWG stranded (19 x 29) shielded with 18 AWG stranded TC drain wire

- Polyethylene insulation
- Nominal capacitance: 75pF/m
- Nominal outer diameter: .313"
- Color: chrome



Part No.	Product No.	No. of Pairs	Description	1	5	10
233146CE	8719-100-60	1	100' reel	\$59.99	\$54.99	\$49.99
233154CE	8719-500-60	1	500' reel	198.65	180.24	163.88
233162CE	8719-1000-60	1	1000' reel	349.99	329.99	309.99
234064CE	8719-U500-60	1	500' unreel box	198.65	180.24	163.88
234063CE	8719-U1000-60	1	1000' unreel box ..	349.99	329.99	309.99

14 AWG stranded (19 x 27) shielded with 16 AWG stranded TC drain wire

- Polyethylene insulation
- Nominal capacitance: 79pF/m
- Nominal outer diameter: .355"
- Color: chrome



Part No.	Product No.	No. of Pairs	Description	1	5	10
233171CE	8720-100-60	1	100' reel	\$59.99	\$51.55	\$48.97
233189CE	8720-500-60	1	500' reel	229.99	214.99	199.99
233197CE	8720-1000-60	1	1000' reel	429.99	399.99	389.99
234065CE	8720-U500-60	1	500' unreel box	229.99	214.99	199.99

Belden COT Paired DataTwist®
Category 5e UTP Cable

TIA/EIA – 568-B.2, unbonded-pair cable

- 4 pair unshielded • 24 AWG solid
- Maximum DCR per 100m – 9.38Ω
- Input impedance: 100Ω



- 1585A series:
- Plenum, FEP Teflon® insulation, Flamarrest® jacket
- Nominal outer diameter: .200"

1583A series:

- Non-plenum, polyolefin insulation, PVC jacket,
- Nominal outer diameter: .214"

Part No.	Product No.	Color	Description	1	5	10
234092CE	1585A-100-877	Natural	100' reel	\$29.99	\$28.49	\$26.99
234094CE	1585A-500-877	Natural	500' reel	129.99	114.99	99.99
234093CE	1585A-1000-877	Natural	1000' reel	199.99	189.99	179.99
234095CE	1585A-U1000-877	Natural	1000' unreel box ..	199.99	189.99	179.99
234096CE	1585A-U100-D15	Blue	100' unreel box	29.99	28.49	26.99
234098CE	1585A-U500-D15	Blue	500' unreel box	129.99	114.99	99.99
234097CE	1585A-U1000-D15	Blue	1000' unreel box ..	199.99	189.99	179.99
234089CE	1583A-100-06	Blue	100' reel	9.99	9.49	8.99
234176CE	1583A-500-06	Blue	500' reel	49.99	44.99	39.99
234090CE	1583A-1000-06	Blue	1000' reel	85.69	77.75	70.64
234091CE	1583A-U1000-06	Blue	1000' unreel box	85.69	77.75	70.64
447179CE	1583A-U1000-02	Red	1000' unreel box	70.15	66.36	62.56
447187CE	1583A-U1000-03	Orange	1000' unreel box	70.15	66.36	62.56
447195CE	1583A-U1000-04	Yellow	1000' unreel box	70.15	66.36	62.56
447208CE	1583A-U1000-05	Dk. green	1000' unreel box	70.15	66.36	62.56
447216CE	1583A-U1000-09	White	1000' unreel box	70.15	66.36	62.56
447224CE	1583A-U1000-10	Black	1000' unreel box	70.15	66.36	62.56
447232CE	1586A-U1000-F6H	Dk. gray	1000' unreel box	70.15	66.36	62.56

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Color Code Legend
New Sale Lower\$ QtySave

Belden COT Multi-Conductor Audio, Control, and
Instrumentation Cables Non-Plenum

22 AWG stranded (7 x 30) shielded with 22 AWG stranded TC drain wire

- Polyethylene insulation
- Nominal capacitance: 75pF/m
- Nominal outer diameter: .199" • Color: chrome



Part No.	Product No.	Conductors	Description	1	5	10
233234CE	8771-100-60	3	100' reel	\$29.99	\$25.95	\$24.65
233242CE	8771-500-60	3	500' reel	99.49	94.31	89.07
233251CE	8771-1000-60	3	1000' reel	188.85	178.14	167.66
234067CE	8771-U500-60	3	500' unreel box	99.49	94.31	89.07
234066CE	8771-U1000-60	3	1000' unreel box ..	188.85	178.14	167.66

22 AWG stranded (7 x 30) unshielded

- PVC insulation • Color: chrome



8443 Series



8444 Series



8445 Series

Part No.	Product No.	Conductors	Description	1	5	10
232995CE	8442-100-60	2	100' reel	\$11.99	\$10.99	\$9.99
233007CE	8442-500-60	2	500' reel	51.59	48.91	46.19
233015CE	8442-1000-60	2	1000' reel	96.45	92.38	85.69
234054CE	8442-U500-60	2	500' unreel box	51.59	48.91	46.19
234053CE	8442-U1000-60	2	1000' unreel box	96.45	92.38	85.69
233023CE	8443-100-60	3	100' reel	15.69	14.25	12.94
233031CE	8443-500-60	3	500' reel	72.75	68.91	65.09
233040CE	8443-1000-60	3	1000' reel	137.79	130.17	120.75
234056CE	8443-U500-60	3	500' unreel box	72.75	68.91	65.09
234055CE	8443-U1000-60	3	1000' unreel box ..	137.79	130.17	120.75
233058CE	8444-100-60	4	100' reel	19.99	18.21	16.54
233066CE	8444-500-60	4	500' reel	92.99	88.07	83.19
233074CE	8444-1000-60	4	1000' reel	176.19	166.35	154.31
234058CE	8444-U500-60	4	500' unreel box	92.99	88.07	83.19
234057CE	8444-U1000-60	4	1000' unreel box ..	176.19	166.35	154.31
233082CE	8445-100-60	5	100' reel	25.15	22.76	20.69
233091CE	8445-500-60	5	500' reel	111.99	101.80	93.33
233103CE	8445-1000-60	5	1000' reel	220.25	207.99	192.96
234060CE	8445-U500-60	5	500' unreel box	111.99	101.80	93.33
234059CE	8445-U1000-60	5	1000' unreel box ..	220.25	207.99	192.96

20 AWG stranded (7 x 28) shielded with 20 AWG stranded TC drain wire

- Polyethylene insulation and chrome PVC jacket
- Nominal capacitance: 89pF/m
- Nominal outer diameter: .218" • Color: chrome



Part No.	Product No.	Conductors	Description	1	5	10
234253CE	8772-U500-60	3	500' unreel box ..	\$132.79	\$120.77	\$110.69
234252CE	8772-U1000-60	3	1000' unreel box ..	241.49	221.39	204.35

18 AWG stranded (16 x 30) shielded with 20 AWG stranded TC drain wire

- Polyethylene insulation
- Nominal capacitance: 79pF/m
- Nominal outer diameter: .246" • Color: chrome



Part No.	Product No.	Conductors	Description	1	5	10
233200CE	8770-100-60	3	100' reel	\$59.99	\$54.99	\$49.99
233218CE	8770-500-60	3	500' reel	165.65	150.29	136.55
233226CE	8770-1000-60	3	1000' reel	299.99	276.09	254.84
234083CE	8770-U500-60	3	500' unreel box	165.65	150.29	136.55
234082CE	8770-U1000-60	3	1000' unreel box ..	299.99	276.09	254.84

Belden COT More Belden Wire and CableNEW
ON THE WEBSee Complete Belden Wire & Cable Offering at www.Jameco.com/Prod/Belden



Multi-Conductor Cable

Shielded Sound and Security Cable

NEW
ON THE WEB

- 2 conductors
- 18 AWG (7 x 26) stranded with tinned copper drain wire
- Flexguard® PVC jacket



Unshielded Communications and Control Cable

- Type: CM UL 2464
- 2 conductors
- 18 AWG (16 x 30) stranded
- PVC jacket



Foil Shielded Computer Cable

- Type: CMR UL 2464
- 9 conductors
- 24 AWG (7 x 32) stranded tinned copper with drain wire
- PVC jacket



Carol® Brand Rubber Cord

- Type: 500W
- 4 conductors
- 14 AWG (41 x 30) stranded
- 600V, 90°C rating



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See Our General Cable Offering at www.Jameco.com/Prod/GeneralCable



Hook-Up Wire

3079/3081 – Type B MIL-W-16878E

NEW
ON THE WEB

- 600V
- PVC insulation
- Colors: White and yellow
- Operating temp: -20°C to 105°C
- 14 AWG (41 x 30) & 10 AWG (105 x 30) stranded



3533 – Type B UL Style 2713 MIL-W-16878E

- 22 AWG (19x34) stranded tinned copper
- UL rating: 300V; 80°C



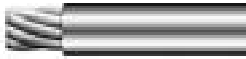
5877 – Type EE UL Style 1880 MIL-W-16878E

- 18 AWG (19 x 30) stranded
- TFE Teflon insulation
- Rating: 1000V; 200°C
- Yellow



7133 – Type C UL 1430 MIL-W-16878E

- Irradiated PVC insulation
- 18 AWG (7 x 26) stranded tinned copper
- Rating: 1000V; 105°C
- White



2855 – Type E UL 213 MIL-W-16878B

- TFE insulation
- 22 AWG solid silver plated copper
- Rating: 600V; 200°C



1555/1560 – Type MW MIL-W-76B

- PVC insulation
- 18 AWG (16 x 30) and 12 AWG (65 x 30) stranded tinned copper
- Rating: 1000V; 80°C
- Yellow



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See Our Alpha Wire & Cable Offering at www.Jameco.com/Prod/AlphaWire



Wire & Cable

3500 – Multi-Pair Low Capacitance Foil Braid Shielded Cable

NEW
ON THE WEB

- For RS-232/485 UL AWM Style 2919
- Operating temp: -20°C to 80°C
- 28 AWG (7 x 36) stranded
- 300V • 25 pairs
- Nominal capacitance: 11pf/ft.



6010C/6018C – Multi-pair Communications & Control

- Individually foil shielded UL type CM
- 300V
- Gray
- 22 AWG (7 x 30) tinned copper with 22 AWG stranded tinned copper drain wire
- 3 pairs
- PVC jacket



1172C – Multi-conductor Unshielded Communications & Control Cable

- UL AWM 2576 type CM
- 22 AWG (7 x 30) stranded tinned copper
- PVC jacket
- Gray
- 2 conductor



2411C – Multi-conductor Foil Shield Communication & Control

- 20 AWG (7 x 28) stranded tinned copper with 20 AWG (10 x 30) stranded drain wire tinned copper
- Rating: 300V; 75°C
- PE insulation
- 2 conductor
- PVC jacket (gray)



Xtra Guard® I Multi-conductor, Unshielded Cable

- UL type CM, AWM 2464
- 24/20/18/16 AWG stranded tinned copper
- Rating: 300V; -20°C to 80°C
- PVC jacket



Xtra Guard® Multi-conductor, Unshielded Flexible Cable

- UL AWM style 2587
- 14 AWG (41 x 30) stranded bare copper
- 5 conductors
- Oil resistant PVC jacket
- Rating: 600V; -5°C to 90°C



9504C – LAN UTP Cat 5 Cable

- Non-plenum
- Nominal impedance: 100Ω
- 24 AWG solid
- 4 pairs
- PVC jacket



2168/2174 – Shielding Grounding Strap

- Tinned or silver plated copper braid
- 14 AWG and 9 AWG equivalent
- Nominal I.D.: 11/64" and 1/2"
- 168 or 528 ends



3580 – 0.050" Centers Flat Ribbon Cable

- UL style 2651
- Gray
- Rating: 300V; -20°C to 105°C
- Nominal capacitance: 14μF/ft.
- Nominal impedance: 105Ω
- PVC insulation
- 25 conductors
- Stranded tinned



537B – 3-Conductor Power Cord

- Unshielded right angle receptacle
- 125V @ 10A rated
- Black
- 6'7"
- SJT
- 18/3



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Day or Night**

Our friendly sales department will take your order
24x7x365 by phone, fax, web or email. 1-800-831-4242

RG Type Bulk Coaxial Cable

RG58/U & RG58A/U (50Ω): Nom. cap.: 27pF/ft.; center resist.: 10.4Ω/1kft. @ 77°F
RG59/U (75Ω): Nominal capacitance: 19pF/ft.; center resist.: 16.5Ω/1kft. @ 77°F
RG174/U (50Ω): Nominal capacitance: 30.8pF/ft.; center resist.: 97Ω/1kft. @ 77°F
 • Prepackaged and priced in increments of 100' or 1000'

Part No.	Cross Ref. No.	Description	100 ft.	1000 ft.
102226CE	RG58/U	For ethernet, oscilloscopes (solid 20AWG)	\$11.99	\$108.50
116898CE	RG58A/U	For ethernet, oscilloscopes (stranded 20AWG)	18.99	150.00
102218CE	RG59/U	For CATV & video patch cords (solid 22AWG)	12.99	110.00
112037CE	RG174/U	For ethernet, oscilloscopes (stranded 26AWG)	18.99	169.00

Solid Hook-Up Wire – 22 AWG

- Temp. range: -55°C to +105°C • Passes UL VW-1 flame test
- MIL-W-16878D type B • Wt.: 100' (0.3 lbs.); 1000' (3.8 lbs.)
- For use with breadboards such as the JE20 series, pg 270

Part No.	Cross Ref. No.	Color	100 ft.	Part No.	Cross Ref. No.	Color	1000 ft.
36767CE	122BE/C	Blue	\$5.49	36775CE	122BE/K	Blue	\$39.99
36791CE	122BK/C	Black	5.49	36804CE	122BK/K	Black	39.99
36821CE	122G/C	Green	5.49	36839CE	122G/K	Green	39.99
36855CE	122R/C	Red	5.49	36863CE	122R/K	Red	39.99
36880CE	122W/C	White	5.49	36898CE	122W/K	White	39.99
36919CE	122Y/C	Yellow	5.49	36927CE	122Y/K	Yellow	39.99

Modular Telephone Cable – 28 AWG

- Color coded conductors • Flat modular cable
- PVC jacket • Gray • 7 x 43 stranded

Part No.	Cross Ref. No.	Conductors	100 ft.	1000 ft.	5000 ft.
103430CE	MTC4	4	\$3.49	\$30.00	\$140.00
103448CE	MTC6	6	7.49	50.00	235.00
103450CE	MTC8	8	9.99	62.00	265.00

2-Conductor Power/Speaker Cable – 24 AWG

- Black wire with white polarity stripe
- Temperature rating: 20°C to 60°C
- Stranded copper wire (7 x 32) • Operating voltage: 300V

Part No.	Cross Ref. No.	Wt. (lbs.)	100 ft.	Part No.	Cross Ref. No.	Wt. (lbs.)	1000 ft.
100280CE	224BK/C	0.8	\$5.59	100298CE	224BK/K	7.8	\$43.95

Category 5 Network Cable

- 100MHz • 8C • 4 twisted pairs • UTP
- Insulation: polyethylene • Nom. OD.: 0.189"
- Nom. impedance: 100Ω

Solid: uses modular plug P/N 119343CE, pg 98
Stranded: uses modular plug P/N 79281CE, pg 98

- Prepackaged and priced in increments of 25', 100' or 1000'

24 AWG UTP Category 5 Enhanced – 350MHz

Part No.	Description	25 ft.	100 ft.	1000 ft.
176225CE	Solid (gray)	\$4.99	\$17.00	\$100.00
176233CE	Stranded (gray)	5.99	21.00	180.00
201582CE	Stranded (blue)	5.99	18.00	160.00

24 AWG UTP Category 5 – 100MHz

Part No.	Description	25 ft.	100 ft.	1000 ft.
118130CE	Stranded (gray) (7/32 AWG)	\$5.95	\$19.35	\$164.50

Multiconductor Shielded Computer Communication Cable – 24 AWG

- Stranded copper wire, multi-colored insulation
- Insulated with polyvinyl chloride (PVC) • Color: gray
- Voltage rating: 300V • 24 AWG (7 x 32 AWG)
- Shielded 100% w/ aluminum mylar • Drain wire
- Prepackaged and priced in increments of 25', 100' or 1000'

Part No.	Cross Ref. No.	Conductors	Diameter	25 ft.	100 ft.	1000 ft.
31860CE	SC4	4	0.20"	\$4.75	\$17.00	\$140.00
31878CE	SC9	9	0.23"	11.25	35.00	270.00
31843CE	SC15	15	0.28"	14.75	49.00	430.00
31851CE	SC25	25	0.37"	22.25	71.00	590.00

UL 1430 Stranded Hook-up Wire

- Temperature rating: 105°C • Voltage: 300V • 18/20 AWG
- Average wall thickness: .016 • Sold in 100' rolls

Part No.	Gauge	Color	Strands	Dia. (in.)	Dia. (mm)	1	10	25
307918CE	18	Black	19 x 30	.082	2.083	\$12.95	\$11.65	\$10.49
307926CE	18	Red	19 x 30	.082	2.083	12.95	11.65	10.49
305015CE	18	Orange	7 x 26	.082	2.083	12.95	11.65	10.49
305023CE	18	Yellow	7 x 26	.082	2.083	12.95	11.65	10.49
304995CE	20	Yellow	19 x 32	.071	1.803	12.95	11.65	10.49
305007CE	20	Gray	19 x 32	.071	1.803	12.95	11.65	10.49
304979CE	20	Blue	7 x 28	.070	1.778	12.95	11.65	10.49
304987CE	20	Gray	7 x 28	.070	1.778	12.95	11.65	10.49
307897CE	20	Black	7 x 28	.070	1.778	12.95	11.65	10.49
307900CE	20	Red	7 x 28	.070	1.778	12.95	11.65	10.49

Twisted Pair Cable – 24 AWG

- PVC insulation • Use for hook up wire • Stranded tinned wire (7 x 32)
- Reduced EMI • Wt.: 100' (0.5 lbs.); 1000' (4.7 lbs.) • 80°C • 300 V

Part No.	Cross Ref. No.	Color	100 ft.	Part No.	Cross Ref. No.	Color	1000 ft.
105911CE	224GW/C	Green/white	\$5.49	105806CE	224GW/K	Green/white	\$44.95
173147CE	224RW/C	Red/white	5.49	173155CE	224RW/K	Red/white	44.95
173163CE	224BW/C	Black/white	5.49	173171CE	224BW/K	Black/white	44.95

Kynar™ Wire Wrap Wire – 30 AWG

- Assorted color coded insulation • Used for prototyping
- Color coded Kynar™ (Polyvinylidene Fluoride) insulation
- Silver plated copper (solid conductor) • UL 1423
- Temperature: -40°C to +125°C • See pg 123 for sockets
- Wire wrap tools, pg 260 • Passes UL VW-1 flame test

Part No.	Color	Wt. (lbs.)	100 ft.	Part No.	Color	Wt. (lbs.)	1000 ft.
22541CE	Blue	0.1	\$4.95	22550CE	Blue	0.6	\$29.95
22576CE	Black	0.1	4.95	22584CE	Black	0.6	29.95
22630CE	Red	0.1	4.95	22648CE	Red	0.6	29.95
22664CE	White	0.1	4.95	22672CE	White	0.6	29.95
22605CE	Green	0.1	4.95	22613CE	Green	0.6	29.95
22699CE	Yellow	0.1	4.95	22701CE	Yellow	0.6	29.95

Gray Flat Ribbon Cable – 28 AWG

- Single edge red stripe for pin 1 orientation
- Insulation: polyvinyl chloride (PVC) • 28 AWG (7 x 36) • Center spacing: 0.05"
- Voltage rating: 300V • Stranded copper wire • Temp. rating: -20°C to +80°C
- Prepackaged and priced in increments of 10', 25', 100' or 500'

Part No.	Cross Ref. No.	Conductors	10 ft.	25 ft.	100 ft.	500 ft.
135538CE	171-10	10	\$1.49	\$3.20	\$11.50	\$47.50
37671CE	171-16	16	2.19	5.00	16.00	70.00
37719CE	171-20	20	3.99	6.25	16.00	65.00
37760CE	171-25	25	3.89	8.75	25.00	110.00
37807CE	171-26	26	3.49	8.00	25.00	120.00
37840CE	171-34	34	4.25	9.25	32.00	120.00
37911CE	171-37	37	5.89	11.75	32.00	125.00
37920CE	171-40	40	7.39	17.50	48.00	215.00
37954CE	171-50	50	6.75	14.50	49.00	210.00
103481CE	171-60	60	8.95	19.75	65.00	285.00

Multicolor Flat Ribbon Cable – 28 AWG

- Standard 10-color repeat sequence • 28 AWG (7 x 36)
- Center spacing: 0.05" • Voltage rating: 300V
- Temp. rating: -20°C to +80°C • Stranded copper wire
- Prepackaged and priced in increments of 10', 25', 100' or 500'

Part No.	Cross Ref. No.	Conductors	10 ft.	25 ft.	100 ft.	500 ft.
112547CE	28RC10	10	\$1.95	\$4.50	\$17.50	\$70.00
105671CE	28RC16	16	3.25	7.25	24.00	110.00
105689CE	28RC20	20	3.95	9.00	30.00	135.00
105697CE	28RC25	25	6.29	14.25	49.95	219.95
105700CE	28RC34	34	6.99	14.75	49.00	235.00
105726CE	28RC40	40	8.69	19.55	69.49	299.95
105718CE	28RC50	50	10.95	24.95	85.95	384.95

UL 1007 Stranded Hook-Up Wire 300 Volts

- 80°C • PVC insulation • CSA: TR-64
- 22 AWG (7x30)¹; 20 AWG (10x30)²; 18 AWG (16x30)³
- Temperature range: -40°C to +80°C • Sold in 100' rolls

Part No.	Cross Ref.	Color	Wt. (lbs.)	1	5	Part No.	Cross Ref.	Color	Wt. (lbs.)	1	5
126084CE	223SBK/C ¹	Black	0.4 ...	\$3.39	\$3.19	310893CE	UL1007-20-GR-C ²	Green	1.0 ...	\$4.95	\$4.75
126033CE	223SR/C ¹	Red	0.4 ...	3.39	3.19	310914CE	UL1007-20-YL-C ²	Yellow	1.0 ...	4.95	4.75
126076CE	223SW/C ¹	White	0.4 ...	3.39	3.19	310922CE	UL1007-20-BL-C ²	Blue	1.0 ...	4.95	4.75
310851CE	UL1007-22-GR-C ¹	Green	1.0 ...	3.39	3.19	125786CE	183SBK/C ³	Black	0.8 ...	5.79	5.55
310877CE	UL1007-22-YL-C ¹	Yellow	1.0 ...	3.39	3.19	125735CE	183SR/C ³	Red	0.8 ...	5.79	5.55
310885CE	UL1007-22-BL-C ¹	Blue	1.0 ...	3.39	3.19	125751CE	183SW/C ³	White	0.8 ...	5.79	5.55
125840CE	203SBK/C ²	Black	0.6 ...	4.95	4.75	310931CE	UL1007-18-GR-C ³	Green	1.0 ...	5.79	5.55
125794CE	203SR/C ²	Red	0.5 ...	4.95	4.75	310949CE	UL1007-18-YL-C ³	Yellow	1.0 ...	5.79	5.55
125831CE	203SW/C ²	White	0.5 ...	4.95	4.75	310957CE	UL1007-18-BL-C ³	Blue	1.0 ...	5.79	5.55

A Jameco
EXCLUSIVE



See page 220 for additional
Floppy Drive Cables

Disk Drive Cables



Quantity SAVE

Part No.	Description	Cable Length	1	10	100
185084CE	34-pin header socket ribbon cable for floppy drive	25"	\$1.19	\$.99	\$.75
32918CE	34-pin header socket ribbon cable for floppy to card	23"	3.49	2.97	2.22
355637CE	40-pin IDE hard drive cable to card	11.5"	.89	.86	.83
185076CE	40-pin IDE hard drive cable to card	14"	.95	.71	.53
32686CE	40-pin IDE hard drive cable to card	18"	.99	.90	.85
72805CE	Two 40-pin header socket ribbon cable for IDE drive	18"	3.69	3.14	2.35
175492CE	40-pin header socket ribbon cable for ultra DMA66/100	17"	6.95	6.25	5.49

Internal and External SCSI Cables for Complete Connectivity

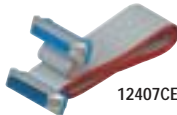


- For PC/XT/AT and compatibles • All lines connected

Part No.	Description	1	10	100
32715CE	50-pin header socket ribbon cable SCSI-I (18")	\$3.95	\$3.49	\$2.95
137550CE	68-pin header internal ribbon cable SCSI-III (27")	12.49	11.25	10.15
118076CE	Male HPDB50 to male HPDB50 SCSI-II to SCSI-II (6')	17.95	15.95	13.95

Ribbon Cable Assemblies

- Metal connector
- 300V rating
- 105°C rating
- 28 AWG flat cable
- Tin-plated contacts



Part No.	Description	1	10	100
12407CE	4' DB25 M-F	\$4.49	\$3.95	\$3.59
208581CE	6' DB9 M-F	3.95	3.55	3.19

PC/XT/AT & PS/2 Keyboard Extension Cables

- Color: beige
- 114981CE/112045CE/
- 5-pin DIN male-to-female
- 28548CE/111053CE:
- 6-pin mini DIN female-to-male

Quantity SAVE



Part No.	Description	1	10	100
114981CE	PC/XT/AT 6' non-coiled	\$1.99	\$1.69	1.27
112045CE	PC/XT/AT 10' non-coiled	3.95	3.36	2.52
28548CE	PS/2 6' non-coiled	4.35	3.89	3.49
111053CE	PS/2 10' non-coiled	5.49	4.99	4.39

AT-to-PS/2 and PS/2-to-AT Keyboard Adapter Cables

28003CE/319783CE:

- Connects AT-type keyboards to PS/2
- 5-pin female DIN to 6-pin male mini DIN

310789CE:

- Connects PS/2 keyboard to AT
- 6-pin female mini DIN to 5-pin male DIN connectors



Part No.	Length	Color	1	10	100
319783CE	4.5"	Black	\$2.45	\$2.19	\$1.99
28003CE	6.5"	Beige	3.95	3.49	3.15
310789CE	7.5"	Beige	3.95	3.49	3.15

Dual PS/2 Adapter

Converts a dual PS/2 female to a single PS/2 male.

- Size: 1.9"L x 1.2"W

Part No.	Description	1	10	100
319791CE	PS/2 adapter	\$2.75	\$2.59	\$2.45



3.5" Disk Drive Power Adapter Cable

- IBM PC/XT and higher compatibles
- Allows connection of standard 3.5" disk drives to power supplies



Part No.	Length	AWG	1	10	100
28396CE	3.5"	22	\$2.49	\$2.25	\$1.95

3.5" & 5.25" Disk Drive Power Splitters

- IBM PC/XT and higher compatibles
- Splits 4-line Molex male into 2 females



Part No.	Drive	AWG	Length	1	10	100
28353CE	5.25"	18	5"	\$2.95	\$2.69	\$2.39
277528CE	5.25"	20	6"	2.85	2.59	2.25
72303CE	3.5"	22	5"	2.75	2.49	2.19

AT/ATX Power Supply Extension Cables

348891CE

- For use with 12-pin AT power supplies
- 326490CE/170237CE
- For use with ATX power supplies
- 20-pin ATX male and female connectors
- Color coded to ATX power supply



Part No.	Length	AWG	1	10	100
348891CE	9.75"	18	\$1.89	\$1.78	\$1.69
326490CE	13"	18	5.35	5.09	4.79
170237CE	15"	18	5.95	5.65	5.35

IEEE 1284 Parallel/ Serial High Speed Cables

Compatible with bidirectional communication data flow resulting in speeds up to 10 times faster than conventional applications.

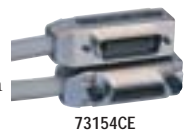
- Double shielded with 28 AWG stranded twisted pair inner conductors
- Molded shells, PVC plastic
- Color: beige (P/N 130067CE/319767CE); black (P/N 161630CE); gray (P/N 223845CE)
- Weight: 0.6 lbs.



Part No.	Description	1	10
130067CE	6' DB25 M-Cent. parallel 36M...	\$11.95	\$10.95
319767CE	6' DB25 M-Cent. parallel 36M	4.95	4.69
223845CE	6' DB25 M-Cent. parallel 36M	11.95	10.95
161630CE	10' DB25 M-M serial cable	14.95	13.49

IEEE 488 Cables

A variety of cable lengths are offered to ensure that IEEE system requirements are met (20 meters maximum length with a maximum of 15 devices). These cables are standard IEEE 488 with stackable 24-pin GPIB connectors on both ends. • Color: gray



Part No.	Description	Wt. (lbs.)	1	10	25
73154CE	1 meter	0.8	\$36.49	\$32.79	\$29.49
115781CE	2 meter	1.2	37.95	34.19	30.95
115801CE	4 meter	2.0	38.95	36.19	31.95

RGB Video Cables

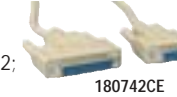
- 75Ω coaxial cable;
- 6' or 10'
- Pin 1 red, pin 2 green, pin 3 blue, pin 14 white/black vertical, pin 13 gray horizontal
- 5 BNCs to HDDB15-pin male
- Weight: 0.9 lbs.



Part No.	Description	1	10	25
73648CE	6' cable (black)	\$19.95	\$16.99	\$12.75
118068CE	10' cable (black)	23.35	19.85	14.89

Serial Null Modem Cables

- Molded type connectors
- Color: gray
- 181403CE/180697CE Pin outs:
1 & 6-4, 2-3, 3-2, 4-6 & 1, 5-5, 7-8, 8-7
- 181438CE Pin outs: 2-2; 3-3; 5 & 6-4; 7-5; 8-7; 20-6 & 8 (Serial printer null modem)
- 180582CE Pin outs: 2-2; 3-3; 4-5 & 6; 5-7; 6 & 8-20; 7-8; (Serial printer null modem)
- 180742CE Pin outs: 1-4 & 5; 2-2; 3-3; 4-6; 5-7; 6-20; 7-8; 8-8



Part No.	Description	Wt. (lbs.)	1	10	50
181403CE	6' DB9 F to DB9 F	0.3	\$5.69	\$5.09	\$4.59
180697CE	10' DB9 F to DB9 F	0.4	6.79	6.09	5.49
181438CE	6' DB25 M to DB9 F	0.4	4.95	4.49	3.95
180582CE	10' DB25 M to DB9 F	0.4	6.69	6.05	5.45
180742CE	10' DB25 F to DB9 F	0.5	7.39	6.65	5.99

VGA Monitor Cables

- Connects video card to VGA monitor
- IBM PC/XT and higher compatibles
- HDDB15 male to male



Part No.	Description	1	10	100
66173CE	6' monitor cable	\$6.49	\$5.89	\$5.29
148523CE	10' monitor cable	6.95	6.25	5.59

9-Pin Monitor Cable

- For monochrome, RGB, EGA and multisync monitors
- Connects video card to monitor
- IBM PC/XT and higher compatibles



Part No.	Description	1	10	100
66157CE	6' DB9 M-M	\$4.45	\$3.95	\$3.55

VGA Monitor Extension Cables

- Extends VGA monitor cable; HDDB15 male-to-female
- IBM PC/XT and higher compatibles
- 134041CE: • HDDB15 female w/ hex nuts and HDDB15 male w/ thumbscrews
- 66165CE/148531CE/ 355661CE: • Thumbscrews on each end



Part No.	Description	1	10	100
134041CE	6' screws/hex nuts	\$4.49	\$3.95	\$3.49
66165CE	6' thumbscrews	6.59	5.95	5.35
148531CE	10' thumbscrews	7.49	6.79	5.99
355661CE	10' thumbscrews	5.49	3.94	3.39

Macintosh® Printer Cables

Part No.	Description	1	10	50
10604CE	6' mini DIN8M	\$3.29	\$3.15	\$2.99
130024CE	10' mini DIN8M	5.99	5.39	4.85

DA15 Extension Cables

- Molded connectors
- Straight through
- Thumbscrews
- Color: gray (237032CE: black)



Part No.	Description	Length	1	10	100
181286CE	DA15 M-M	6'	\$5.49	\$4.95	\$4.45
181358CE	DA15 M-F	6'	5.49	4.95	4.45
237032CE	DA15 M-F	8'	6.99	5.95	4.45

DB25-to-Centronics Parallel Printer Cables

- Molded and fully shielded DB25 male and 36-pin Centronics male connectors
- IBM PC/XT and higher compatibles



Part No.	Description	Wt. (lbs.)	1	10	100
28716CE	6' straight	0.4	\$4.69	\$3.99	\$2.99
223845CE	6' straight†	0.6	11.95	10.95	9.75
123781CE	10' straight	0.6	5.95	5.09	3.79
164777CE	10' right angle*	0.7	4.95	4.45	3.95
28708CE	15' straight	0.8	5.95	5.09	3.79
101899CE	25' straight	1.1	5.95	5.06	3.79

* Centronics right angle † IEEE 1284

37-Pin Straight Through Cable Adapters



Part No.	Description	1	10	100
180611CE	6' DC37 M-M	\$6.95	\$6.29	\$5.65
181294CE	6' DC37 M-F	5.95	5.49	4.95

Monitor/Mouse/Keyboard Cables

- 6' or 32'
- HDDB15 male/female for monitor, 5-pin DIN male/female for keyboard, and DB9 male/female for mouse



Part No.	Description	Wt. (lbs.)	1	10
141284CE	6' cable	1.6	\$22.95	\$19.95
141276CE	32' cable	4.8	39.95	35.95

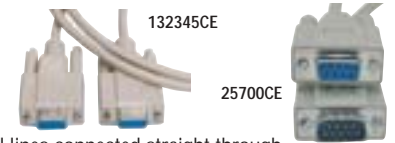
Switch Box Adapter Cables

- 177261CE: Male to male non-coiled cable for P/N 79177CE switch box, pg 226
- 114913CE: Male to male coiled cable for P/N 114155CE switch box, pg 226
- 174772CE: Male to male
- 174908CE/205655CE: Male to male non-coiled
- 112627CE: Male to male non-coiled cable for P/N 79177CE switch box, pg 226



Part No.	Description	Length	1	10	50
114913CE	5-pin DIN	5' (gray)	\$4.95	\$4.21	\$3.16
177261CE	6-pin mini DIN	2' (gray)	2.95	2.55	1.89
174772CE	6-pin mini DIN	6' (black)	4.95	4.25	3.19
174908CE	6-pin mini DIN	6' (gray)	5.75	5.15	4.65
112627CE	6-pin mini DIN	10' (beige)	7.95	7.25	6.49
205655CE	6-pin mini DIN	25' (beige)	8.95	7.95	6.95

DB9 Extension Cables



- All lines connected straight through
- 132345CE/196365CE: DB9 female to DB9 female cable with thumbscrews
- 199638CE/25700CE/148515CE: DB9 male to DB9 female cable with thumbscrews
- 181665CE: DB9 male to DB9 male cable

Part No.	Description	1	10	100	1000
132345CE	6' F-F	\$4.95	\$4.49	\$3.95	\$3.49
199638CE	6' M-F (black)	4.49	3.95	3.49	2.95
25700CE	6' M-F	4.95	4.49	3.95	3.49
196365CE	10' F-F	6.95	6.25	5.59	4.95
148515CE	10' M-F	7.49	6.79	5.99	4.95
181665CE	10' M-M	6.95	6.25	5.59	4.95

9-Pin Test Cable

- DB9 M to DB9 F (6')
- Pin outs: 1-3, 2-2, 4-5



Part No.	Description	1	10	100
162915CE	DB9 male to DB9 female	\$2.95	\$2.51	\$1.88

DB9-to-DB25 AT-Adapter Serial Cables

- For DB9 serial ports which need to be converted to DB25 serial
- AT and compatibles
- Molded DB9 female to DB25 male connectors



Part No.	Description	1	10	100
109583CE	1' serial, beige	\$4.35	\$3.95	\$3.49
189333CE	3' serial, beige	3.95	3.39	2.55
207790CE	4' serial, beige	2.35	2.15	1.95
31721CE	6' serial, beige	3.89	3.55	3.15
191361CE	6' serial, gray	4.39	3.99	3.15
155521CE	10' serial, beige	3.95	3.55	3.15

DB25 Extension Cables

- All lines connected straight through
- Use to lengthen your standard serial cable or for switch box applications
- Thumbscrews to secure connectors
- Color: gray; except P/Ns 174001CE/175290CE: black*



Part No.	Description	Wt. (lbs.)	1	10	50	100
174001CE	3' M-M*	0.6	\$4.79	\$4.35	\$3.89	\$3.49
65787CE	6' M-M	0.5	6.49	5.89	5.29	4.89
39538CE	10' M-M	0.7	6.95	6.29	5.05	3.69
179979CE	15' M-M	1.2	6.95	6.29	5.05	3.65
67070CE	25' M-M	1.4	10.95	9.95	8.95	7.95
180435CE	50' M-M	3.6	14.95	13.49	11.95	9.95
164291CE	3' M-F	0.4	4.29	3.89	3.49	2.95
175290CE	3' M-F*	0.4	2.95	2.69	2.25	1.59
163133CE	5' M-F	0.6	5.29	4.75	4.29	3.85
67256CE	6' M-F	0.6	6.45	5.79	5.25	4.69
39511CE	10' M-F	0.7	6.95	6.29	5.05	3.69
177279CE	15' M-F	1.0	9.49	8.55	7.69	6.25
101995CE	25' M-F	1.4	11.95	10.79	9.69	7.95
181201CE	50' M-F	3.2	17.95	14.39	10.79	8.09
224266CE	6' F-F	0.7	4.95	3.95	2.95	2.09

USB-A Cables with Bracket

- Supports data transfer rates of 12Mbps
- Allows connection of two devices
- Dual USB-A female connectors
- 8" long



Part No.	Description	1	10	25
144813CE	Female panel mount	\$3.95	\$3.75	\$3.55
319652CE	Male panel mount	3.95	3.75	3.55

IEEE 1394 Firewire Cables



Connect your computer to the latest high speed Firewire peripherals.

- IEEE-1394 compliant
- UL approved
- Molded connectors

4-pin Male to 4-pin Male

Lower \$\$\$

Part No.	Description	1	10	25
222631CE	3' cable black	\$5.99 \$4.99	\$4.45	\$3.95
175821CE	6' cable black	\$7.99 5.59	5.05	4.55
222244CE	10' cable black	\$9.99 6.99	6.25	5.65
222252CE	15' cable black	\$12.99 8.59	7.75	6.95

4-pin Male to 6-pin Male

Part No.	Description	1	10	25
222623CE	3' cable black	\$5.99 \$4.99	\$4.45	\$3.95
175839CE	6' cable black	\$7.99 5.59	5.05	4.55
22228CE	10' cable black	\$9.99 6.99	6.25	5.65
222236CE	15' cable black	\$12.99 8.59	7.75	6.95

6-pin Male to 6-pin Male

Part No.	Description	1	10	25
222615CE	3' cable black	\$5.99 \$4.99	\$4.45	\$3.95
175847CE	6' cable black	\$7.99 5.59	5.05	4.55
222201CE	10' cable black	\$9.99 6.99	6.25	5.65
222210CE	15' cable black	\$12.99 8.59	7.75	6.95

USB-to-DB9 Serial Adapter

- USB-A to DB9 male
- Length: 13"
- Supports automatic handshake mode
- Over 230kpbs data transfer rate
- 96 byte buffer each for upstream and downstream data flow
- Works with cellphones, PDA, digital cameras, modems and ISDN terminal adapters



Part No.	Description	1	10
387954CE	USB-A to DB9	\$17.95	\$16.15

USB to Serial Adapter with Prolific Chipset

This USB serial adapter provides an external Plug-and-Play RS-232 port for computers, notebooks, laptops, and handheld computing devices. Provides high-quality serial connections at transfer rates of more than 500kbps.

- Frees existing RS-232 ports for other uses
- Supports RS-232 serial interface, automatic handshake mode, remote wake-up & power management
- Provides a 96-byte buffer for each upstream and downstream data transfer
- Full compliance with USB specification v 1.1
- 7" cable with DB25 male connector and 14" cable with USB-A connector

System requirements: Windows®98/2000, USB host controlled installed in the system

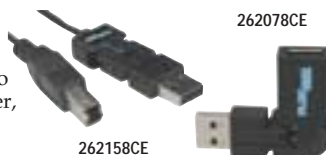
Includes: 3.5" software and manual

Part No.	Description	1	5
213006CE	USB-A to serial converter	\$29.95	\$27.95

Flexible USB Cable and Adapter

FlexUSB™ is a compact, lightweight accessory that bends, rotates, and flexes to your desired angle. It provides a means to position USB devices, allowing you to use it with any computer, even in the most cramped environment. Its unique ratcheting design makes it possible to position your USB devices that are compatible with both Windows® and MAC platforms.

Part No.	Description	1	5
262078CE	Flexible USB adapter A M-F	\$10.95	\$9.85
262158CE	Flexible USB cable with A-M to B-M connectors	11.95	10.85



Flexible USB cables and adapters make plugging in cables an ease, especially in tight spots!

USB Gender Adapters

Part No.	Description	Dimensions	1	10	25
321251CE	USB-A male to USB-A male	1.9"L x 0.6"W	\$2.79	\$2.65	\$2.39
169383CE	USB-A male to USB-B female	1.3"L x 0.4"W	2.69	2.49	2.25
169375CE	USB-A female to USB-B male	1.7"L x 0.6"W	2.69	2.49	2.25
316806CE	USB-A female to USB-A female	1.5"L x 0.7"W	2.69	2.49	2.25
321699CE	USB-B male to USB-B male	2.0"L x 0.4"W	2.79	2.65	2.49
316822CE	USB-B female to USB-B female	1.4"L x 0.7"W	2.69	2.49	2.25



USB 2.0 Cables



- Higher transfer rate up to 480Mbps
- Backward compatible w/ USB 1.1 pro



USB-A Male to USB-A Male

Part No.	Description	1	10	25
326473CE	3' cable beige	\$1.55	\$1.39	\$1.29
229681CE	6' cable beige	1.65	1.49	1.39
222033CE	6' cable black	1.65	1.49	1.39
229551CE	6' cable clear	1.65	1.49	1.39
229690CE	10' cable beige	1.89	1.75	1.65
222041CE	10' cable black	1.89	1.75	1.65
229569CE	10' cable clear	1.89	1.75	1.65
229702CE	15' cable beige	2.85	2.59	2.49
222050CE	15' cable black	2.85	2.59	2.49
229577CE	15' cable clear	2.85	2.59	2.49

USB-A Male to USB-B Male

Part No.	Description	1	10	25
229711CE	3' cable beige	\$1.55	\$1.39	\$1.29
222607CE	3' cable black	1.55	1.39	1.29
229585CE	3' cable clear	1.55	1.39	1.29
229729CE	6' cable beige	1.65	1.49	1.39
222009CE	6' cable black	1.65	1.49	1.39
229593CE	6' cable clear	1.65	1.49	1.39
229737CE	10' cable beige	1.89	1.75	1.65
222017CE	10' cable black	1.89	1.75	1.65
229606CE	10' cable clear	1.89	1.75	1.65
229761CE	15' cable beige	2.85	2.59	2.49
222025CE	15' cable black	2.85	2.59	2.49
229614CE	15' cable clear	2.85	2.59	2.49

USB-A Male to USB-A Female

Part No.	Description	1	10	25
326481CE	3' cable beige	\$1.55	\$1.39	\$1.29
229770CE	6' cable beige	1.65	1.49	1.39
222068CE	6' cable black	1.65	1.49	1.39
229622CE	6' cable clear	1.65	1.49	1.39
229788CE	10' cable beige	1.89	1.75	1.65
222076CE	10' cable black	1.89	1.75	1.65
229631CE	10' cable clear	1.89	1.75	1.65
229796CE	15' cable beige	2.85	2.59	2.49
222084CE	15' cable black	2.85	2.59	2.49
229649CE	15' cable clear	2.85	2.59	2.49

USB 1.1 Cables

USB-A Male to USB-B Male

Quantity SAVE

Part No.	Description	1	10	25
308726CE	5' cable (black)	\$2.99	\$2.54	\$1.91
169359CE	6' cable	4.95	4.49	3.95



USB Keyboard Adapter

USB to PS/2

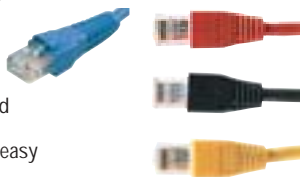
- USB-A female to 6-pin mini DIN male (PS/2)

Part No.	Description	1	10	25
316831CE	USB-A to PS/2	\$1.79	\$1.59	\$1.39



Category 5e Network Cables

- UTP
- 8P8C
- 4 pair
- 24 AWG (7 x 43) stranded
- "Snagless" boot
- Color coded for easy wire tracing
- High-flexibility
- Achieve optimum system performance



Category 5e (350MHz)

Part No.	Length	Color	1	10	100
168292CE	3 ft.	Gray	\$1.79	\$1.49	\$1.39
168305CE	7 ft.	Gray	2.99	2.59	2.39
168313CE	15 ft.	Gray	5.29	4.39	3.99
168321CE	25 ft.	Gray	7.99	6.79	6.39
201777CE	3 ft.	Red	1.79	1.49	1.39
201785CE	7 ft.	Red	2.99	2.59	2.39
201793CE	15 ft.	Red	6.95	5.95	4.45
201806CE	25 ft.	Red	7.99	6.79	6.39
201697CE	3 ft.	Black	1.79	1.49	1.39
201700CE	7 ft.	Black	2.99	2.59	2.39
201718CE	15 ft.	Black	5.29	4.39	3.99
201726CE	25 ft.	Black	7.99	6.79	6.39
201734CE	3 ft.	Blue	1.79	1.49	1.39
201742CE	7 ft.	Blue	2.99	2.59	2.39
201751CE	15 ft.	Blue	5.29	4.39	3.99
201769CE	25 ft.	Blue	7.99	6.79	6.39
201814CE	3 ft.	Yellow	1.79	1.49	1.39
201822CE	7 ft.	Yellow	2.99	2.59	2.39
201831CE	15 ft.	Yellow	5.29	4.39	3.39
201849CE	25 ft.	Yellow	7.99	6.79	6.39

Category 5 (100MHz)

Part No.	Length	Color	1	10	100
281261CE	7 ft.	Gray	\$2.49	\$2.39	\$2.25
281455CE	25 ft.	Gray	4.35	4.15	3.95
277641CE	6 ft.	Red	2.49	2.25	1.99
277659CE	12 ft.	Black	2.99	2.69	2.45
203051CE	10 ft.	Blue	2.75	2.15	1.59
277667CE	12 ft.	Yellow	2.99	2.69	2.45

Bulk Modular Network Cables

- 8 Conductor
 - UTP
 - 4 twisted pairs
 - Insulation: polyethylene
 - Nom. OD.: 189"
 - Nominal impedance: 100Ω
- Solid:** uses modular plug
P/N 119343CE, pg 98
- Stranded:** uses modular plug P/N 79281CE, pg 98
- 118130CE/201646CE:** 7/32 AWG
- Prepackaged and priced in increments of 25', 100' or 1000'



24 AWG UTP Category 5e – 350MHz

Part No.	Description	25 ft.	100 ft.	1000 ft.
176225CE	Solid (gray)	\$4.99	\$17.00	\$100.00
201603CE	Solid (blue)	4.99	14.00	90.00
176233CE	Stranded (gray)	5.99	21.00	180.00
201574CE	Stranded (red)	5.99	18.00	160.00
201591CE	Stranded (black)	5.99	18.00	160.00
201582CE	Stranded (blue)	5.99	18.00	160.00
201566CE	Stranded (yellow)	5.99	18.00	160.00

24 AWG UTP Category 5 – 100MHz

Part No.	Description	25 ft.	100 ft.	1000 ft.
118130CE	Stranded (gray)	\$5.95	\$19.35	\$164.50
201646CE	Stranded (black)	5.49	15.00	140.00

Color Code Legend
New Sale Lower\$ QtySave

CAT 5e Crossover Cables

- Connect 2 PCs without a hub
- 24AWG (7 x 43) stranded
- Strain relief RJ45 connectors
- 4-pair • 8P8C • UTP



Part No.	Description	1	10	100
302041CE	6' cable RJ45	\$3.75	\$3.39	\$3.05
169261CE	10' cable RJ45	6.95	6.25	5.59

Keystone-Type Wall Plates

- Size: 2.8"W x 4.5"H

Quantity SAVE

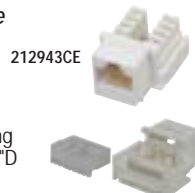
Part No.	No. of ports	Color	1	10	100
195549CE	1	Ivory	\$1.25	\$1.15	\$0.99
195557CE	2	Ivory	1.25	1.15	.99
195565CE	3	Ivory	1.25	1.05	.79
195573CE	4	Ivory	1.25	1.05	.79
212978CE	1	White	1.25	1.15	.99
212994CE	2	White	1.25	1.15	.99
212986CE	3	White	1.25	1.15	.99
212960CE	4	White	1.25	1.15	.99
213508CE	Hole Filler	White	.29	.25	.19



Modular RJ-45 & RJ-11 Jacks

Punchdown Keystone Type

- Removable jacks used in wall plates (clip in)
- CAT 5e classification
- Punchdown type wiring connections with color coding
- Size: 0.57"W x 0.63"H x 1.23"D
- RJ45: 8P8C RJ11: 6P6C



RJ45

Part No.	Color	1	10	100
195590CE	Red	\$3.75	\$3.55	\$3.19
195602CE	Yellow	3.75	3.55	3.19
195611CE	Green	3.75	3.19	2.39
195629CE	Black	3.75	3.55	3.19
195637CE	Ivory	3.75	3.38	2.99
212951CE	Blue	3.75	3.55	3.19
212943CE	White	3.75	3.55	3.19

RJ11

Part No.	Color	1	10	100
213524CE	Black	\$3.75	\$3.55	\$2.99
213516CE	White	3.75	3.55	3.19

Category 5e Network Cables

- 24 AWG
- 350 MHz
- Snagless boots
- Lengths: 3' to 100'
- Colors: Gray, Black, Blue, Green, Red, Yellow and White



These products ship from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

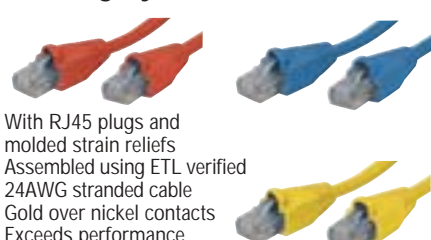
See Our Emerson Cat5e Cable Offering at
www.Jameco.com/Prod/EmersonCat5e

www.Jameco.com

Our enhanced website offers nearly 15,000 more products. Find them quickly and order them easily.

Category 6 Network Cables

- With RJ45 plugs and molded strain reliefs
- Assembled using ETL verified 24AWG stranded cable
- Gold over nickel contacts
- Exceeds performance levels as specified in TIA/EIA 568B.2-1 Category 6 draft 8



Category 6

Part No.	Length	Color	1	10	50
219707CE	3 ft.	Gray	\$2.79	\$2.69	\$2.56
219715CE	7 ft.	Gray	3.99	3.87	3.68
219723CE	14 ft.	Gray	6.59	6.37	6.05
219731CE	25 ft.	Gray	9.39	8.92	8.47
219740CE	50 ft.	Gray	14.29	13.58	12.90
219854CE	3 ft.	Blue	2.79	2.69	2.56
219862CE	7 ft.	Blue	3.99	3.87	3.68
219871CE	14 ft.	Blue	6.59	6.37	6.05
219889CE	25 ft.	Blue	9.39	8.92	8.47
219897CE	50 ft.	Blue	14.29	13.58	12.90
220003CE	3 ft.	White	2.79	2.69	2.56
220011CE	7 ft.	White	3.99	3.87	3.68
220020CE	14 ft.	White	6.59	6.37	6.05
220038CE	25 ft.	White	9.39	8.92	8.47
220046CE	50 ft.	White	14.29	13.58	12.90
219900CE	3 ft.	Red	2.79	2.69	2.56
219918CE	7 ft.	Red	3.99	3.87	3.68
219926CE	14 ft.	Red	6.59	6.37	6.05
219934CE	25 ft.	Red	9.39	8.92	8.47
219942CE	50 ft.	Red	14.29	13.58	12.90
219803CE	3 ft.	Green	2.79	2.69	2.56
219811CE	7 ft.	Green	3.99	3.87	3.68
219820CE	14 ft.	Green	6.59	6.37	6.05
219838CE	25 ft.	Green	9.39	8.92	8.47
219846CE	50 ft.	Green	14.29	13.58	12.90
219758CE	3 ft.	Black	2.79	2.69	2.56
219766CE	7 ft.	Black	3.99	3.87	3.68
219774CE	14 ft.	Black	6.59	6.37	6.05
219782CE	25 ft.	Black	9.39	8.92	8.47
219791CE	50 ft.	Black	14.29	13.58	12.90
219951CE	3 ft.	Yellow	2.79	2.69	2.56
219969CE	7 ft.	Yellow	3.99	3.87	3.68
219977CE	14 ft.	Yellow	6.59	6.37	6.05
219985CE	25 ft.	Yellow	9.39	8.92	8.47
219993CE	50 ft.	Yellow	14.29	13.58	12.90

3M Tool-Less Modular RJ-45 Jack with Dust Door

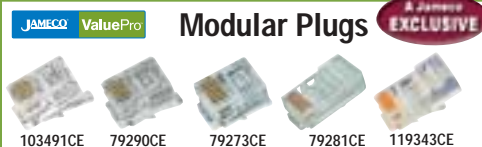
A unique and simple CAT5e hardware component (TIA/EIA-568 B.2) utilizing the universally accepted keystone mount. It offers a quick and reliable tool-less connection as the eight conductors are effortlessly terminated in a single operation.



- UL verified TIA/EIA-568 B.2 CAT5e
- Tool-less connector • Keystone mount
- Integral shutter • Top or bottom cable insertion
- Self-stripping contacts

Blue Part No. = Limited Quantity Available

Part No.	Product No.	1	10	100
263071CE	VOL-OCK5E-U-W	\$5.55	\$4.99	\$4.55



Modular Plugs

P = No. of positions C = No. of contacts
 W/E = Western Electric type number

* Prepackaged: order in increments of 10, 100 or 1000

Part No.	Description	W/E	1	10	100	1000
103491CE	4P4C (handset)	616	*	\$.11	\$.099	\$.089
79290CE	6P4C (RJ11)	623	*	.12	.11	.095
79273CE	6P6C (RJ11)	623	*	.22	.195	.18
79281CE	8P8C (RJ45) (for stranded wire)	641	.35	.28	.24	.20
119343CE	8P8C (RJ45) unshielded (for solid wire)	—	.49	.44	.35	.28
116610CE	8P8C (RJ45) shielded	—	1.09	.99	.89	.79
204222CE	8P8C (RJ45) shielded (for STP solid wire)	—	.95	.89	.79	.75
204231CE	8P8C (RJ45) shielded (for STP stranded wire)	—	1.55	1.49	1.15	.95
116601CE	8P8C (RJ45) shielded (for solid wire)	—	.99	.79	.65	.49
180646CE	10P10C (for stranded wire)	—	1.39	1.15	.82	.69

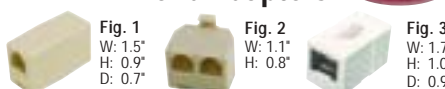
Modular Jacks



- Voltage rating: 150VAC max.
 - Contact current rating: 1.5A max. @ 25°C
 - Durability: 750 mating cycles • PC mount
- *W/E = Western Electric type number

Part No.	Description	*W/E	1	10	100
199620CE	4P4C (handset) .48"W	—	\$.36	\$.33	\$.30
115128CE	4P4C (handset) .395"W	—	.37	.34	.31
151765CE	6P4C (RJ11) side flange AMP	AMP	.45	.43	.39
105945CE	6P4C (RJ11) top flange	623	.62	.56	.42
204206CE	6P4C (RJ11) lead wires	—	1.09	.99	.89
115836CE	6P6C (RJ11) side flange	—	.74	.67	.59
204177CE	6P6C (RJ11) dual	—	1.49	1.35	1.19
124038CE	6P6C (RJ11) 6" leads	—	1.25	1.15	.99
115844CE	8P8C (RJ45)	641	.48	.44	.40
204214CE	8P8C (RJ45) .81"L	—	1.19	1.09	.95
203449CE	8P8C (RJ45) shielded Pin spacing "A" = .055"	—	1.19	.99	.85

Modular Couplers and Adapters



Style 1 Reverse wiring for telephone systems

Style 2 Straight wiring for networking/printer sharing



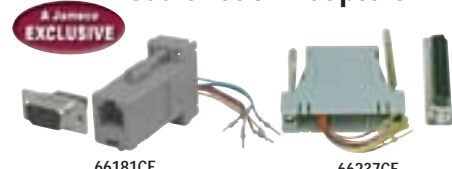
Part No.	Description	Fig.	1	10	100
72207CE	6P4C male "T" adapter, Style 2. Provides 2 jacks from 1 line. Male modular plug (6P4C), 2 female modular receptacles (6P4C) RJ11	2	\$.99	\$.89	\$.80
71757CE	6P6C modular coupler, Style 1, RJ11	1	.95	.86	.79
135087CE	6P6C modular coupler, Style 2, RJ11	1	.99	.89	.79
181091CE	6P6C male "T" adapter, Style 2. Provides 2 jacks from 1 line. Male modular plug (6P6C), 2 female modular receptacles (6P6C) RJ11	2	.99	.89	.78
118501CE	8P8C modular coupler, Style 1, RJ45	1	1.85	1.75	1.55
135079CE	8P8C modular coupler, Style 2, RJ45	1	1.39	1.25	1.15
153023CE	8P8C modular coupler, Style 2 (for Cat. 5) RJ45	3	7.99	7.19	6.49

Modular Jack Boxes & Wall Plate



Part No.	Description	Fig.	1	10	100
72311CE	6P6C & 8P8C double wall jack plate w/ jacks (beige)	1	\$1.95	\$1.75	\$1.57
319839CE	8P8C triple wall jack plate w/ jacks (white) (CAT 6)	2	11.19	10.65	10.09
319821CE	8P8C quad wall jack plate w/ jacks (white) (CAT 5e)	3	11.75	11.15	10.59
103464CE	6P4C adhesive jack RJ11 (beige)	4	1.39	1.19	1.09
71984CE	6P6C adhesive jack RJ11 (beige)	4	1.39	1.19	.99
71651CE	8P8C adhesive jack RJ45 (beige)	4	1.95	1.65	1.45
213031CE	8P8C adhesive jack RJ45 (single, white) (CAT 5e)	5	3.29	2.99	2.69
213049CE	8P8C adhesive jack RJ45 (dual, white) (CAT 5e)	6	4.15	3.75	3.39

RS-232-to-RJ11/RJ45 Modular Jack Adapters



Change your RS-232 port to a RJ11 or RJ45 modular jack. This will allow you to use modular phone cable rather than RS-232 cable, thus simplifying networking applications. Comes complete with all necessary wiring and hardware.

Part No.	Description	1	10	100
204265CE	DB9 M to RJ11 (6P4C)	\$1.95	\$1.66	\$1.24
66181CE	DB9 M to RJ11 (6P6C)	2.59	2.35	2.09
66190CE	DB9 M to RJ45 (8P8C)	2.89	2.65	2.35
114737CE	DB9 F to RJ11 (6P4C)	1.95	1.79	1.59
66202CE	DB9 F to RJ11 (6P6C)	2.79	2.55	2.29
66211CE	DB9 F to RJ45 (8P8C)	2.99	2.69	2.45
204281CE	DB25 M to RJ11 (6P4C)	2.39	2.15	1.29
66229CE	DB25 M to RJ11 (6P6C)	2.95	2.35	1.99
66237CE	DB25 M to RJ45 (8P8C)	2.99	2.69	2.45
204273CE	DB25 F to RJ11 (6P4C)	1.95	1.75	1.55
66245CE	DB25 F to RJ11 (6P6C)	2.59	1.95	1.39
66253CE	DB25 F to RJ45 (8P8C)	2.89	2.59	2.29

BNC/F-Type Jacks

- Removable jacks used in wall plates (Pg 97)
- Clip on for easy installation on wall plates
- Keystone type



Blue Part No. = Limited Quantity Available

Part No.	Description	Color	1	10	100
195645CE	F-Type F to F	Ivory	\$.99	\$.90	\$.82
224645CE	F-Type F to F	White	.99	.91	.83
224637CE	BNC F to F	White	1.55	1.41	1.28

RJ11 Retractable Cable

This RJ11 cable extends up to 8'. And when you pack up, give it a tug and it retracts into its lightweight, rugged case like a window-shade. It's completely tangleproof.



Part No.	Description	Price
233349CE	RJ11 retractable cable	\$2.95

"EZ" RJ45 Connector

Strip the wire and insert into the plug & pull out the wire on the other side. This ensures correct conductor order and uniformity in crimping. No wire bar and no wasted cable.



- For solid or stranded wire
- 8P8C plug
- Use standard modular crimping tool

Part No.	Product No.	1	10	100	250
158115CE	RJ45 (8P8C)	\$1.75	\$1.58	\$1.42	\$1.25



Commercial Customers

Open an account with us to consolidate your monthly billing and save time.

Just call us! 1-800-831-4242

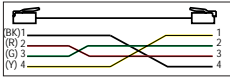
Modular Telephone/Printer Sharing Cables (Gray)

- RJ11 – 6P2C/6P4C for telephone or network
- RJ11 – 6P6C for telephone or printer sharing
- RJ45 – 8P8C for telephone or modem-dial-up use

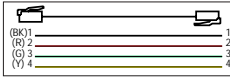


Low Cost Data/Phone Cables

Style 1 – Reverse wiring for telephone systems



Style 2 – Straight wiring for networking/printer sharing



Part No.	Conn. Style	Type	Length	Pricing		
				1	10	100
189940CE	1	RJ11-6P2C	7ft.	\$.99	\$.84	\$.63
196226CE	1	RJ11-6P4C	7ft.	1.49	1.15	.86
115553CE	2	RJ11-6P4C	7ft.	1.25	1.09	.89
355645CE	2	RJ11-6P4C	14ft.	2.19	1.59	1.38
115545CE	1	RJ11-6P4C	25ft.	2.29	2.09	1.85
201232CE	2	RJ11-6P4C†	35ft.	1.95	1.66	1.24
115588CE	1	RJ11-6P6C	7ft.	1.55	1.35	1.15
115617CE	2	RJ11-6P6C	7ft.	2.19	1.99	1.79
355653CE	2	RJ11-6P6C	14ft.	2.75	1.99	1.73
115676CE	2	RJ45-8P8C	7ft.	1.89	1.75	1.49

† Beige

Surface Mount Boxes

Category 5 and 5e

- RJ45 • 8P8C
- 100MHz
- Size: 2.6"L x 3.2"W x 1.2"H
- CAT 5e (except P/N 176073CE)

☼ Blue Part No. = Limited Quantity Available

SALE



213014CE

Part No.	Description	1	10	100
176073CE	Single jack (beige)	\$5.75	\$5.23	\$4.75
213022CE	Single jack (white)	5.25	4.77	4.34
176081CE	Dual jack (beige)☼	9.95	8.46	6.34
213014CE	Dual jack (white)	7.19	6.53	5.93

RJ45-Plug Color Caps (Boots)

- Round strain relief
- 10 piece minimum

Part No.	Color	10	100	500	1000
204409CE	Black	\$.14	\$.13	\$.12	\$.09
204388CE	Yellow .....	.14	.12	.098	.073
204353CE	Gray .....	.14	.13	.12	.095
204361CE	Blue .....	.14	.12	.098	.073
204425CE	Red .....	.14	.12	.11	.091
204396CE	Green .....	.14	.12	.098	.073
204370CE	Ivory .....	.14	.12	.098	.073

204425CE



30-Day Money-Back Guarantee

If you're not completely satisfied with your purchase, simply return the product within 30 days for a refund or exchange.

Details on page 284.

AMP Modular Assemblies

Modular Jack Flangeless

Available in:

- Side entry with or without panel stop
- Top entry with PCB ground with panel stops

Modular Jack Low Profile

Available in:

- Right angle with or without panel stops
- PCB ground Cat 5e

Modular Plug

- For solid or stranded wire
- For handset

Coupler

- In-line coupler assembly

These products ship from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

See Our AMP Modular Connectors Series Offering at www.Jameco.com/Prod/AMPModular

NEW
ON THE WEB



Wire Management Products



Clamps

- Adjustable, releasable
- Natural color

Grommet Edging

- Polyethylene
- Solid wall

Sleeving

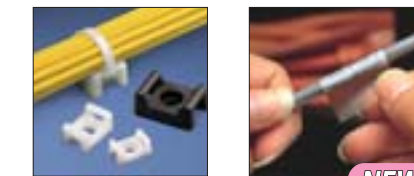
- Braided
- Expandable
- Flame retardant
- Black

These products ship from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

See Our Panduit Wire Management Offering at www.Jameco.com/Prod/PanduitWireMgmt

NEW
ON THE WEB

Cable Ties



Barb Ty Cable Ties

- Weather resistant
- Nylon
- Black or natural
- Length: 2.8" to 14.6"

Self-Laminating

- TEDLAR
- White
- Length: 1"

Mounts

- Nylon
- Natural
- For indoor use

These products ship from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

See Our Panduit Cable Ties Offering at www.Jameco.com/Prod/PanduitTies

NEW
ON THE WEB

Cable Clips

These nail-in cable clips are designed for use with RG-6 cables.

- For RG-6 type cables
- Includes 1" nail
- Prepackaged in increments of 100



295591CE



295611CE

Part No.	Description	1 Pkg	10 Pkgs
295603CE	Single RG-6 cable clip, white	\$3.39	\$2.79
295591CE	Single RG-6 cable clip, black	3.19	2.65
295611CE	Dual RG-6 cable clip, white	3.65	2.99
295620CE	Dual RG-6 cable clip, black	3.65	2.99

Cable Tie Tool

- 2.5 - 5mm width (of cable)
- Tension adjustable
- Twist to cut surplus tie end
- Spring return action
- Metal



Part No.	Cross Ref. No.	1	5	10
182297CE	0302TG-7	\$16.99	\$15.99	\$14.99

Bushing Assembly Tool

- For use with strain relief bushings, right



Part No.	Description	1	10	100
73470CE	Bushing tool	\$34.95	\$28.75	\$28.45

Abbatron Wire Management

Steel Cable Clamps

- Length: 3/8"
- Mounting hole: #8

Plastic Cable Clamps

- Length: 1/2"
- Mounting hole: 11/64"

Wire Strain Relief Clamps

- One-piece easy-to-install relief; absorbs pull and twist stress on power cords

Fahnestock Clips

- Mounting hole: #4

These products ship from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

See Our Abbatron Wire Management Offering at www.Jameco.com/Prod/AbbatronWire

NEW
ON THE WEB

Contractor Grade Cable Ties

Chances are we have a cable tie for your application! Avery Dennison™ cable ties are available in a wide variety of sizes and in three different materials.



These products ship from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

See Our Avery Dennison Cable Ties Offering at www.Jameco.com/Prod/AveryTies

NEW
ON THE WEB

Call for OEM pricing

Nylon Cable Ties

Standard



70560CE

- Cable ties made from UL approved Nylon 66
- Temperature range: -40°C to +85°C
- Flammability rating: UL 94V-2
- Color: clear (except P/N 182676CE)
- Sold in increments of 100 or 1000

Quantity SAVE

Part No.	Tensile Strength (lbs.)	Dimensions (L" x W")	100	1000
70560CE	18	3.1 x 0.10	\$.025	\$.015
126543CE	18	4.0 x 0.10	.02	.014
182676CE	18*	4.75 x 0.13	.03	.025
182650CE	18	5.5 x 0.13	.035	.025
139150CE	18	8.0 x 0.10	.06	.04
182668CE	18	8.0 x 0.13	.075	.05
182684CE	18	8.0 x 0.18	.036	.033
70906CE	40	5.8 x 0.10	.035	.029
190756CE	40	10.0 x 0.14	.12	.086
190772CE	40	11.0 x 0.19	.10	.075
190764CE	40	13.0 x 0.14	.10	.075

* Black

Weather Resistant



104141CE

- Contains Carbonate A for greater resistance to ultraviolet rays in outdoor use
- Color: black
- Sold in increments of 100 or 1000

UV Resistant

Part No.	Tensile Strength (lbs.)	Dimensions (L" x W")	100	1000
139125CE	18	3.0 x 0.90	\$.045	\$.029
104141CE	18	4.0 x 0.10	.044	.029
104133CE	40	5.8 x 0.10	.047	.031
190781CE	40	8.0 x 0.13	.085	.065
190799CE	40	10.0 x 0.14	.10	.09
190801CE	40	13.0 x 0.14	.113	.088

Cable Tie Assortments

- Tensile strength: 18-50 lbs.

- 145701CE: 1000 pcs. (4"L); 10 colors
- 150412CE: 500 pcs. (4"L); 300 pcs. (8"L); 50 pcs. (11"L), 5 colors

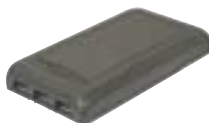


Part No.	Weight (lbs.)	1	10	50
145701CE	0.7	\$9.49	\$8.49	\$7.39
150412CE	1.7	14.99	13.49	12.14

Wire Management Enclosure

The "NO MORE" wire management solution for workstations, home office, and entertainment systems. Wall mountable, this enclosure prevents wire tangles and clutter, protects wires and connections for accidents, and neatly conceals wires of varying thickness. Made of durable, high impact molded resin. An innovative design that optimizes wire storage capacity.

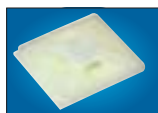
- Size: 14.1"H x 8.0"W x 2.1"D • Color: black



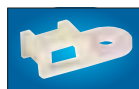
Part No.	Description	1	10
355872CE	Wire management enclosure	\$17.99	\$17.57

Cable Tie Mounts and Cable Clamps

- Tie mount and screw tab cable clamps • Material: UL approved nylon 66, 94V-2
- Sold in increments of 10, 100 or 1000



182941CE/171213CE
71407CE/71394CE
71386CE



70594CE



182300CE/173761CE



182318CE/182376CE



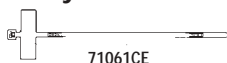
182334CE/182342CE



173711CE/173729CE
173737CE/134754CE
173753CE

Part No.	Cross Ref. No.	Description	10	100	1000
182941CE	0505HC-101S	4-way cable tie mount, self adhesive, .75"D	\$.07	\$.055	\$.042
171213CE	HC-100	4-way cable tie mount, self adhesive, use w/ 0.1"W max., 0.5" square	.15	.13	.094
71407CE	HC-101	4-way cable tie mount, self adhesive, use w/ 0.1"W max., 0.9" square	.18	.16	.13
71394CE	HC-102	4-way cable tie mount, self adhesive, use w/ 0.2"W max., 1.1" square	.23	.19	.14
71386CE	HC-103	4-way cable tie mount, self adhesive, use w/ 0.4"W max., 1.1" square	.25	.19	.13
70594CE	HC-0	4-way cable tie, screw type, use w/ 0.2"W max., 0.8"L x 0.4"W	.15	.09	.05
182300CE	0510HC-2	Cable tie mount, 1/4" screw hole, 0.5"D	.17	.15	.14
173761CE	HC-1	Cable tie, saddle type, 0.6"L x 0.4"W	.15	.125	.075
182318CE	0519ATC-17	2-way adjustable tie mount, #6 flat head screw, 0.7"D	.37	.35	.33
182376CE	0519ATC-22	2-way adjustable tie mount, #6 flat head screw, 0.9"D	.29	.261	.222
182334CE	0520FC-1	Cable tie mount, self adhesive, 0.1"D	.17	.15	.12
182342CE	0520FC-2	Cable tie mount, self adhesive, 0.2"D	.15	.135	.122
173711CE	UC0	Cable clamp for 1/8" cable	.08	.027	.018
173729CE	UC0.5	Cable clamp for 3/16" cable	.035	.032	.019
173737CE	UC1	Cable clamp for 1/4" cable	.14	.09	.063
134754CE	B0375	Cable clamp for 3/8" cable	.08	.029	.018
173753CE	UC3	Cable clamp for 1/2" cable	.099	.041	.031

Nylon Cable ID Ties and Tabs



71061CE



135175CE

71061CE: Clear ID tab (0.98" x 0.31")

135175CE: Nylon cable tie ID marker

- Sold in increments of 10, 100 or 1000

Part No.	Size	10	100	1000
71061CE	4.0"L x 0.1"W	\$.085	\$.08	\$.072
135175CE	2.0"L x 0.8"W x .02"T	.22	.11	.08

Cable Sleeve

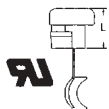
Clean Cut Expandable Sleeve

- Flame resistant
- Applications: protecting wires, cables and hoses
- Operating temp.: -70°C to 125°C
- Sold in spools of 25'

Part No.	Product No.	Actual/Expanded Dia.	1	10
162157CE	CCPT2X	.250"/.440"	\$15.95	\$14.95
162165CE	CCPT3X	.500"/.750"	17.95	14.49

Round-Type Strain Relief Bushings

- Material: UL approved nylon 66, 94V-2
- Color: black
- Used extensively for protecting cords and to prolong cord life
- Sold in increments of 10, 100 or 1000



SALE



182369CE

Part No.	Cable Type	Lgth (in.)	10	100	1000
182351CE	SVI/SVT	.43	\$.05	\$.043	\$.04
182369CE	SJ/SJT; 16 AWG	.58	.18	.10	.085
182377CE	SJC; 18 AWG	.58	.24	.22	.20

Pressure Sensitive Wire Marker

Easy release vinyl cloth markers feature a strong, pressure-sensitive adhesive, for long lasting bond on a wire or cable. Black non-smear legends on white background for easy identification.

- Convenient pocket-size booklet
- 10 sheets numbered 1 to 45 each sheet

SALE

Part No.	Cross Ref. No.	1	10	100
216813CE	TCWM-3	\$6.99	\$6.39	\$5.81

Self Adhesive Wire Marker

- 90 markers per number
- Stick to wires for permanent identification
- Cloth tape label numbered 0-9
- Used after or before terminal



Part No.	Cross Ref. No.	1	10
182262CE	0215WMB-1	\$7.09	\$6.45

3M Tape Wire Marker

- For marking wires with numerical sequence
- Self adhesive tapes numbered 0-9
- Size: (tape) 96"L x 0.25"W



Part No.	Description	1	10
159231CE	Numerical tape dispenser	\$30.95	\$27.95

Cable Markers

- UL approved natural nylon
- 10 piece minimum

SALE

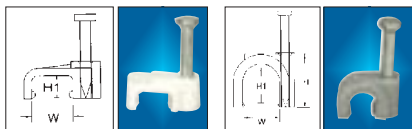


Part No.	Size	10	100	1000
182705CE	1.5"L x .75"W	\$.10	\$.09	\$.08
182713CE	2.5"L x 1.76"W	.25	.23	.20

Cable Clips, Tape and Heat Shrink Tubing

Call for OEM pricing – we carry major manufacturers.

Nail-In Cable Clips



- Material: impact resistant PE
- With nails inserted
- Sold in increments of 100 or 1000

For telephone cords; white

Blue Part No. = Limited Quantity Available

Part No.	Ref. No.	Cross W x H x H1 (in.)	100	1000
190828CE	NF1.2	.24 x .21 x .15	\$.006	\$.005
190836CE	NF1.6	.31 x .31 x .20	.006	.005

For general round cables; gray

Part No.	Ref. No.	Cross W x H x H1 (in.)	100	1000
190861CE	NC0.35N	.14 x .23 x .15	\$.022	\$.02
190887CE	NC1N	.24 x .35 x .26	.05	.02
190895CE	NC2N	.31 x .45 x .34	.015	.014
190908CE	NC3N	.39 x .53 x .41	.016	.015

3M Super 33+ Electrical Tape

This tape provides flexibility and easy handling for all around performance. It combines PVC backing with excellent electrical insulating properties to provide primary electrical insulation for splices up to 600V and protective jacketing. Excellent resistance to UV rays, abrasion, moisture, copper corrosion, alkalis and acids, and is flame-retardant. Excellent all-weather performance in cold to 0°F (-18°C) and is designed to perform in a continuous temperature environment up to 220°F (105°C).

- UL listed and CSA certified
- 0.75" x 66'

Part No.	Product No.	1	10	25
285464CE	3M 06132	\$4.35	\$4.00	\$3.98

Raychem Heat Shrink Tubing

- Flexible
- Shrink temp.: 90°C
- Material: cross linked polyolefin

DWP-125 – Double Wall

- Flexible, high shrink ratio, adhesive lined

RNF-100 – Single Wall

- Flexible, flame-retardant, general purpose

RW-175 – Single Wall

- High-temperature, chemical resistant

TMS Series – Military Grade

- Military specification material and print performance

TST Series – Dual Wall

- Adhesive lined, flexible

Versafit – Single Wall

- Highly flame-retardant, very flexible, low shrink temp.

These products ship from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

See Our Raychem Heat Shrink Offering at
www.Jameco.com/Prod/RaychemHST

3M Hook and Loop Fastening System

Nylon hooks mesh with pliable loops. 1" wide strip with adhesive backing sticks instantly to many surfaces.

- Hook and loop: 1" x 15'

Part No.	Product No.	1	5	10
286897CE	3M 06481 (black)	\$31.09	\$29.99	\$28.35
286900CE	3M 06488 (white)	31.55	30.49	28.75

3M Dual Lock Fastening System

3M™ Dual Lock™ reclosable fasteners have been used extensively in transportation, electronics, business equipment, machinery, medical, sign and display markets. When the mushroom-shaped stems interlock, tensile strength is high enough to replace mechanical fasteners, yet you can readily open and close Dual Lock fasteners hundreds of times. High temperature and solvent resistant.

- Adhesive backing for strong bonds
- 1" x 15'
- 5x stronger than conventional hook & loop fasteners
- Audible snap assures secure closure

Part No.	Product No.	1	5	10
288438CE	3M 06463 (clear)	\$74.95	\$71.19	\$67.65

3M Double-Sided Foam Tape

Used in a wide variety of applications, this tape features high-shear acrylic adhesive and high temperature resistance. Adheres securely to any surface with its double-sided adhesive. 1/8" thick open-cell urethane foam carrier. Ideal for many manufacturing applications.

- 1/8" thick
- 1" x 12'

Part No.	Product No.	1	5	10
285907CE	3M 4008	\$14.89	\$11.35	\$10.55

3M Tartan 1710 Electrical Tape

3M™ Tartan™ 1710 vinyl insulating tape offers good resistance to abrasion, moisture, alkalis, acid, copper corrosion and varying weather conditions (including ultraviolet).

- UL listed
- 0.75" x 60'
- Flame retardant

Part No.	Product No.	1	10	25
285587CE	3M 49656	\$.95	\$.89	\$.86

3M Vinyl Electrical Tape

5-pack Multi-Colored

3M #35 vinyl electrical color coding tape is used in phase identification, color coding leads, piping systems and for marking safety areas. UL Listed, CSA Certified, and flame-retardant. Excellent all-weather performance in cold to 0°F (-18°C) or hot to 220°F (105°C). 5 rolls to a pack with colors blue, green, red, yellow, and white.

- 1/2" x 20'

Part No.	Product No.	1	5	10
287806CE	3M 10457	\$7.95	\$6.72	\$6.10

Heat Shrink Tubing

- 2:1 uniform shrink ratio
- Color: black

PVC Heat Shrink Tubing

- Shrink temp: 125°C
- Only sold 10' and 100' lengths

Part No.	Dia. before (mm)	10 ft.	100 ft.
184721CE	.12" (3)	\$1.19	\$10.50
182730CE	.16" (4)	1.39	12.50
182748CE	.20" (5)	1.45	13.00
182756CE	.24" (6)	1.71	15.40
182764CE	.31" (8)	1.79	16.00
182772CE	.43" (11)	2.80	19.00
182781CE	.59" (15)	3.50	30.00

PVC Heat Shrink Flat Film

- Shrink temperature: 175°C
- Temperature range: -45°C to +125°C
- * Precut 39" length; sold as 1 increment

Blue Part No. = Limited Quantity Available

Part No.	Unshrunk Flat	Shrunk Cir. Dia.	1*	10*	100*
70631CE	5/16"	1/4"	\$1.69	\$1.55	\$1.39
70623CE	1/2"	5/16"	1.69	1.44	1.08
70666CE	13/16"	9/16"	1.69	1.45	1.09

Polyolefin Heat Shrink Tubing

- Dielectric strength: 1300V
- Flame retardant
- Flexible
- Shrink temp.: 121°C
- Temperature range: -45°C to +125°C
- * Precut 39" length; sold as 1 increment

Part No.	Before	After (Dia.)	1*	10*	100*
71327CE	1/16"	1/32"	\$.55	\$.46	\$.41
71870CE	3/32"	3/64"	.55	.45	.39
71280CE	1/8"	1/16"	.69	.59	.54
72063CE	1/4"	1/8"	.89	.76	.57
226245CE	3/8"	3/16"	1.09	.98	.88
216477CE	1/2"	1/4"	.99	.84	.63

3M Heat Shrink Tubing 102-Piece Kit

3M™ FP-301 is a heat shrinkable flexible polyolefin tubing that offers an outstanding balance of electrical, physical and chemical properties for a wide variety of industrial and military applications. Rated for 275°F (135°C) continuous operation. FP-301 tubing is typically used as a shrink-fit electrical insulation over cable splices and terminations. It is also used for lightweight wire harness covering, wire marking, wire bundling, component packaging and fire resistant covering.

- Assorted pre-shrink sizes: 3/16" (30 pieces); 1/4" (28 pieces); 3/8" (20 pieces); 1/2" (14 pieces); 3/4" (6 pieces); 1" (4 pieces)
- Pre-cut to 6" lengths

Part No.	Description	1	5	10
285481CE	Heat shrink kit	\$56.95	\$53.70	\$50.99

See page 255 for
Heat Guns.



Audio/Video Cables and Adapters

RCA Cables

Quantity SAVE

Part No.	Description	1	10	25
228443CE	3' stereo RCA (2) male to (2) male plugs, gold plated	\$1.49	\$1.39	\$1.29
183311CE	4' RCA male to male plug (black) .....	.99	.89	.79
206973CE	4' RCA male to male plug (yellow) .....	.99	.89	.79
106374CE	6' RCA male to male plug	1.19	1.00	.75
228419CE	6' mono RCA male plug to female jack	1.65	1.45	1.25
228486CE	6' RCA stereo (2) male plugs to (2) female jacks	1.25	1.15	1.05
228451CE	6' RCA stereo (2) male to (2) male plugs, gold plated	1.79	1.69	1.59
308734CE	6' RCA stereo (2) male to (2) male plugs (red/white)	1.65	1.49	1.35
228401CE	6' RCA stereo (2) male plugs to 3.5mm stereo male plug	1.55	1.39	1.25
236865CE	6' RCA (3) male to (3) male plugs, gold plated	2.39	2.07	1.55
184882CE	6' RCA (3) male to (3) male plugs, low loss	1.95	1.79	1.59
228427CE	10' RCA female jack to male plug	2.35	1.95	1.79
29348CE	10' RCA male to male plug (yellow)	1.69	1.55	1.35
228460CE	12' RCA stereo (2) male to (2) male plugs, gold plated	2.09	1.89	1.75
225980CE	12' RCA (3) male to (3) male plugs, gold plated	4.49	3.89	2.89
225998CE	20' RCA (3) male to (3) male plugs, gold plated	7.99	6.79	5.09
228435CE	25' mono RCA male to male plug, nickel plated	2.19	2.09	1.99
228478CE	25' RCA stereo (2) male to (2) male plugs, gold plated	2.39	2.29	2.19

Video/Audio Patch Cables

Part No.	Description	1	10	25
228216CE	3' stereo video patch cable, gold plated	\$1.19	\$1.13	\$1.07
228574CE	25' stereo video patch cable, gold plated	6.99	6.29	5.65
228582CE	50' stereo video patch cable, gold plated	12.59	11.35	10.19

S-VHS Cables and Adapters

Low-loss fully shielded Super-VHS cables, 4-contact mini DIN plus S-VHS cable and dual-RCA plug stereo cables.

- Fully-molded color coded gold RCA connectors
- Flexible black PVC jacket
- Applications: home theaters, DSS receivers, Super-VHS VCRs, camcorders, and DVD players



228558CE/228566CE: 95% spiral wound shield S-VHS/audio conductors

Part No.	Description	1	10	25
228591CE	6' S-VHS video cable, gold plated	\$2.15	\$1.95	\$1.79
228558CE	6' S-VHS audio-video cable, gold plated	12.95	11.65	10.49
228566CE	12' S-VHS audio-video cable, gold plated	14.95	13.45	12.15
228603CE	12' S-VHS video cable, gold plated	2.65	2.35	2.10
228611CE	25' S-VHS video cable, gold plated	4.05	3.85	3.65
229809CE	S-video 4-pin mini DIN female to female jack	2.85	2.59	2.29
229391CE	S-video male plug to RCA video female jack	5.39	4.85	4.39
295581CE	S-video female jack to RCA video male plug	5.39	4.85	4.39
30351CE	S-video male plug to RCA video female jack	5.39	4.85	4.39

75Ω "F" Connectors

Part No.	Cross Ref. No.	Fig.	Description	1	10	50	100
289828CE	200-030	1	RG-59 crimp-on nickel plated	\$2.22	\$2.20	\$1.17	\$1.14
289908CE	200-031	1	RG-59 crimp-on gold plated .....	.45	.43	.41	.39
289887CE	200-035	2	RG-6 crimp-on nickel plated .....	.22	.20	.17	.14
289916CE	200-036	2	RG-6 crimp-on gold plated .....	.45	.43	.41	.39
290001CE	200-039	3	RG-6 twist-on nickel plated .....	.79	.69	.45	.32
289975CE	200-040	3	RG-59 twist-on nickel plated .....	.79	.69	.45	.32
289924CE	200-038	4	RG-6 crimp-on weatherproof seal, brass .....	.69	.59	.49	.39
314510CE	200-024	4	RG-6 crimp-on weatherproof sea .....	.55	.46	.37	.33



3.5mm Audio Patch Cables

Part No.	Description	1	10	25
319206CE	27" 3.5mm mono male to male plug	\$1.09	\$.94	\$.89
326511CE	1' 3.5mm stereo male to male plug	1.75	1.59	1.39
326529CE	6' 3.5mm stereo male to male plug (green/blue)	1.39	1.18	.89
228494CE	6' 3.5mm stereo male to male plug (black)	1.39	1.19	.99
228515CE	6' 3.5mm stereo male plug to female jack	1.49	1.35	1.25
228507CE	12' 3.5mm stereo male to male plug (black)	1.69	1.49	1.29
228523CE	12' 3.5mm stereo male plug to female jack	1.65	1.49	1.35

3.5mm Female Jacks and Male Plugs



- Threaded screw on housing
- 1mm diameter solder eyelets
- Shield crimp tabs

231159CE/231167CE: With spring strain relief

SALE

Part No.	Cross Ref. No.	Description	1	10	100	1000
109495CE	PJ035PM	Mono F jack, 3.5mm hole size	\$.45	\$.40	\$.36	\$.32
165729CE	PJ0354	Mono F jack, 3.5mm hole size .....	.69	.59	.49	.39
101151CE	PJ1035	Mono male plug, plastic .....	.49	.38	.35	.29
147344CE	PJ1035L	Mono male plug, plastic .....	.49	.38	.35	.29
231159CE	AP-336	Mono male plug, metal	1.25	1.19	1.09	.95
231175CE	AP-340	Stereo male plug, plastic .....	.55	.43	.36	.32
231167CE	AP-343	Stereo male plug, metal	1.79	1.60	1.45	1.30

75Ω "F" Connectors/Adapters/Terminators



Part No.	Cross Ref. No.	Fig.	Description	1	10	50	100
291581CE	200-016	1	Perma-seal, RG-59 coax	\$.69	\$.59	\$.55	\$.49
291531CE	200-028	1	Perma-seal, RG-6 coax .....	.69	.59	.55	.49
291709CE	200-050	2	F-jack to jack (nickel) .....	.65	.55	.475	.38
291725CE	200-051	2	F-jack to jack (gold) .....	.95	.85	.79	.75
295371CE	200-053	3	F-panel mount jack to jack (nickel) ...	.65	.55	.475	.38
295380CE	200-107	4	F-R/A jack to plug (nickel)	1.59	1.39	1.16	.95
295398CE	200-103	5	F-jack to push-on plug (nickel) .....	.85	.69	.627	.523
295435CE	200-104	5	F-jack to push-on plug (gold)	1.15	.99	.95	.89
295531CE	200-117	6	F-jack to 3.5mm mono plug (nickel) ..	1.65	1.35	1.13	.93
295451CE	200-075	7	F-plug terminator .....	.55	.45	.35	.25
309657CE	200-045	8	RCA female to F male adapter	1.75	1.35	.97	.87

Audio/Video, 3.5mm, RCA Cables and Adapters

Audio Adapters and Cables


RCA Audio Adapters

Part No.	Description	1	10	25	100
228283CE	RCA female jack to mono 1/4" male plug	\$.99	\$.89	\$.69	\$.55
228312CE	RCA male plug to 1/4" mono female jack	1.25	1.10	.79	.69
228267CE	RCA female to female jack coupler, gold plated .....	.95	.79	.55	.45
159441CE	RCA female to female jack coupler, metal	1.15	.99	.87	.65
228339CE	RCA F jack to 3.5mm mono M plug, gold plated .....	.75	.68	.62	.56
228291CE	RCA F jack to 3.5mm mono M plug, nickel plated .....	.59	.54	.49	.45

RCA Y-Cables

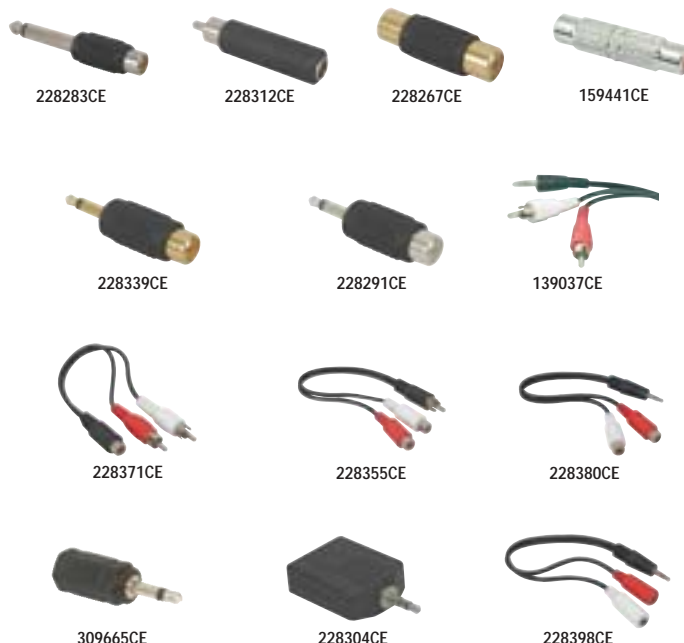
139037CE	5' Y-cable 1/8" stereo M plug to (2) RCA M plugs	\$2.25	\$1.99	\$1.79	\$1.61
228371CE	6" Y-cable (2) RCA M plugs to RCA F jack .....	.99	.89	.80	.72
228355CE	6" Y-cable RCA M plug to (2) RCA F jacks	1.29	1.15	1.06	.79
228380CE	6" Y-cable (2) RCA F jacks to 3.5mm stereo plug	1.95	1.76	1.59	1.19

3.5mm Audio Adapters Blue Part No. = Limited Quantity Available

228275CE	3.5mm stereo female to female jack	\$.41	\$.37	\$.34	\$.32
309665CE	3.5mm stereo F jack to 3.5mm mono M plug .....	.95	.78	.61	.52
228304CE	3.5mm stereo M plug to (2) 1/4" stereo F jacks .....	.93	.84	.77	.70
228339CE	3.5mm mono M plug to RCA F jack, gold plated .....	.75	.68	.62	.56
228291CE	3.5mm mono M plug to RCA F jack, nickel plated .....	.59	.54	.49	.45

3.5mm Y-Cables

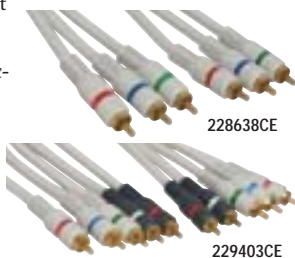
139037CE	5' Y-cable 1/8" stereo M plug to (2) RCA M plugs	\$2.25	\$1.99	\$1.79	\$1.61
228398CE	6" Y-cable (2) 3.5mm stereo female jacks to 3.5mm stereo male plugs	1.95	1.65	1.35	1.25
228380CE	6" Y-cable (2) RCA F jacks to 3.5mm stereo M plug	1.95	1.76	1.59	1.19



Component Video and Audio Cables

Component video cables connect the latest video equipment like DVD players equipped with component video output jacks to LCD or plasma televisions, projectors and other component video devices.

- Low-loss 75Ω oxygen-free copper center conductors and foam dielectric provide maximum signal transfer bandwidth for improved picture quality and performance
- Corrosion resistant, precise 24k gold-plated connectors ensure long lasting quality
- Fully molded color coded connectors attached to an ultra-flexible PVC jacket provide excellent strain relief, easy installation, and identification
- 100%, .012mm aluminum-polyester foil shielding and spiral-wound copper-braid shielding provide clear, noise-free, vivid picture quality



Part No.	Description	1	2	5
228620CE	6' component video RGB cable	\$9.99	\$8.49	\$6.37
228638CE	12' component video RGB cable	19.95	17.95	16.16
228646CE	25' component video RGB cable	25.95	23.36	21.02
229403CE	6' component video RGB and stereo audio cable	14.95	13.46	12.11
229411CE	12' component video RGB and stereo audio cable	25.95	23.36	21.02
229420CE	25' component video RGB and stereo audio cable	29.95	25.46	19.09

RG-6/RG-59 75Ω Coaxial Cables



Type	Length (ft.)	Part No. (Black)	Part No. (White)	1	5
RG-6	3	286977CE	287232CE	\$1.69	\$1.59
RG-59	3	85585CE	—	1.05	.95
RG-6	6	287101CE	287241CE	2.29	2.15
RG-6	12	287128CE	287259CE	3.69	3.49
RG-6	25	287152CE	287267CE	6.99	6.65
RG-6	50	287179CE	287275CE	13.49	12.75
RG-6	75	287208CE	287291CE	18.99	18.15
RG-59	75	355670CE	—	17.95	17.05
RG-6	75	297668CE	—	14.69	13.99
RG-6	100	287224CE	287304CE	24.99	23.75



Perma Seal RCA/BNC Connectors

Use the color code chart below to replace the "xx" when ordering

02 – Red	04 – Yellow	05 – Green	09 – White	10 – Black	13 – Blue
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e.g. 292102CE – 2921 is the Jameco designation for RCA RG-59 plug and 02 is for color red

Part No.	Description	1	10
2922xxCE	RCA RG-6 plug	\$1.59	\$1.49
2921xxCE	RCA RG-59 plug	1.59	1.49
2924xxCE	BNC RG-6 plug	1.89	1.79
2923xxCE	BNC RG-59 plug	1.89	1.79



Audio Connectors

NEW
ON THE WEB

- XLR male and female connectors
- XLR 1/4" stereo and phono jacks
- 1/4" female to female adapters
- XLR connectors and lockable speaker connectors from 3 to 6 position
- Nickel plated or black body finish



These products ship from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

See Complete Neutrik Audio/Video Connector Offering at www.Jameco.com/Prod/NeutrikAudio



Audio/Video Products

Switchcraft is a leading supplier of a broad line of components for the audio, video, telecommunication, computer, medical, military, appliance, transportation and instrumentation industries.

Now available:

- Phono jacks
- Patch cords
- Phono plugs
- Pushbuttons
- Switches
- Jack covers
- Stereo plugs
- Audio connectors
- Receptacles
- Mono jacks



NEW
ON THE WEB

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See Complete Switchcraft Audio/Video Connector Offering at www.Jameco.com/Prod/SwitchcraftAV

RCA Plugs

- High-quality plastic and metal housing RCA plugs

Gold plated metal housing w/ spring strain relief for 6.7mm cables

Part No.	Description	1	10	25	100
229876CE	Black	\$1.89	\$1.69	\$1.55	\$1.39
229868CE	Red	1.89	1.69	1.55	1.39
229884CE	White	1.89	1.69	1.55	1.39
230287CE	Yellow	1.89	1.69	1.55	1.39

Plastic screw-on cover w/ integral cable protection

Part No.	Description	1	10	25	100
229921CE	Black (5 pk)	\$1.15	\$1.05	\$.91	\$.85
229930CE	Red (5 pk)	1.15	1.05	.91	.85
229913CE	White (5 pk)	1.19	1.09	.95	.89
229892CE	Yellow (5 pk)	1.19	1.09	.95	.89

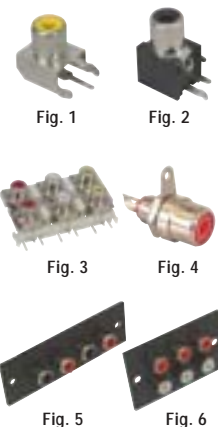
RCA Jacks

- Standard RCA jacks for audio and video signals

Part No.	Fig.	Description	Dimensions	1	10	100	1000
220581CE	1	PCB mount, white	.44"W x .56"D x .48"H	\$.45	\$.31	\$.28	\$.22
220556CE	1	PCB mount, red	.44"W x .56"D x .48"H	.45	.31	.28	.22
220572CE	1	PCB mount, black	.44"W x .56"D x .48"H	.45	.31	.28	.22
220564CE	1	PCB mount, yellow	.44"W x .56"D x .48"H	.45	.31	.28	.22
112475CE	1	PCB mount, red	.44"W x .58"D x .48"H	.39	.35	.31	.19
169501CE	2	PCB mount, black	.40"W x .85"D x .50"H	.39	.35	.32	.26
237016CE	3	PCB mnt., 2x3 grid, red/wht/yel	2.0"W x .45"D x 1.10"H	.89	.79	.69	.65
159484CE	4	Panel mount, black	.84"W x .38"H	.49	.39	.33	.24
172339CE	4	Panel mount, red	.84"W x .38"H	.49	.39	.31	.23
319231CE	5	Panel mount, 1x2 grid, red/wht	2.1"W x .48"D x .78"H	.79	.69	.65	.62
319249CE	5	Panel mount, 1x4 grid, red/blk	2.9"W x .48"D x .98"H	1.19	.99	.94	.89
319257CE	6	Panel mount, 2x2 grid, red/wht	2.0"W x .48"D x 1.38"H	1.19	.99	.94	.89
319265CE	6	Panel mount, 2x3 grid, red/wht	2.3"W x .48"D x 1.41"H	1.29	1.15	1.09	1.03
319071CE	6	Panel mount, 2x4 grid, red/blk	3.0"W x .49"D x 1.40"H	1.39	1.19	1.13	1.07

See page 136 for Power Jacks and Plugs.

Switchcraft – For Highest Quality Connectors



Switchcraft®

Audio Plugs and Jacks

Part No.	Product No.	Fig.	Description	Dimensions	1	10	25	100
281869CE	750	1	3.5mm mono audio plug, plastic	14.0mm x 41.5mm x 5.7mm ID	\$2.49	\$2.17	\$1.99	\$1.81
281834CE	41	2	3.5mm audio jack	7.8mm x 5.9mm	1.29	1.22	1.15	1.09
297019CE	125	3	3.5mm mono jack, metal	31.75mm x 10.3mm Dia.	5.19	4.54	4.08	4.01
297035CE	142A	4	3.5mm mono jack, plastic	21.03mmL x 9.52mm W x 12.7mmH	2.19	2.04	1.93	1.83
297297CE	850	5	2.5mm mono phono audio plug, plastic	25.8mm x 6.35mm Dia.	2.99	2.91	2.84	2.76
297625CE	TR2A	6	2.5mm mono audio jack, metal	12.6mm x 8.2mm Dia.	2.09	1.94	1.85	1.83
281789CE	297	7	1/4" stereo phone audio plug, metal	73.7mm x 7.6mm ID	4.59	3.82	3.19	2.91
281771CE	280	8	1/4" mono phone audio plug, metal	73.7mm x 7.6mm ID	3.15	2.82	2.58	2.36
281762CE	267	9	1/4" stereo phone audio plug, plastic	73.7mm x 7.6mm ID	4.25	3.22	2.95	2.69
281754CE	250	10	1/4" mono phone audio plug, plastic	73.7mm x 7.6mm ID	2.55	2.39	2.13	1.94
281746CE	12B	11	1/4" stereo phone audio jack	14.7mm x 9.1mm Dia.	1.49	1.39	1.32	1.24
281738CE	11	12	1/4" mono phone audio jack	12.8mm x 9.1mm Dia.	1.39	1.29	1.19	1.15
296892CE	12A	11	1/4" mono phono audio jack, metal	31.7mm x 9.4mm Dia.	1.79	1.43	1.33	1.26
296905CE	13B	11	1/4" mono phono audio jack, metal	30.6mm x 9.4mm Dia.	4.15	3.76	3.37	3.22
296930CE	42A	11	1/4" mono phono audio jack, metal	15.9mm x 12.7mm Dia.	1.75	1.60	1.52	1.48
296956CE	70	8	1/4" mono phono audio plug, metal	84.8mm x 9.7mm ID	6.79	5.48	4.93	4.44
297001CE	121	13	1/4" mono phono audio jack, metal	63.5mm x 12.7mm Dia.	7.15	5.87	5.22	4.74
297043CE	151	14	1/4" mono phono audio jack, metal	57.15mm x 15.87mm Dia.	5.99	4.65	4.30	4.25
297060CE	170	15	1/4" mono phono audio jack, metal	69.4mm x 17.46mm Dia.	7.89	5.99	5.58	5.32
297107CE	226	16	1/4" mono phono audio jack, RA, metal	46.4mm x 15.9mm Dia.	3.89	3.70	3.23	2.93
296913CE	14B	11	1/4" stereo phono audio jack, metal	31.6mm x 9.4mm Dia.	4.19	3.81	3.65	3.44
297051CE	152B	14	1/4" stereo phono audio jack, metal	57.15mm x 15.87mm Dia.	5.75	5.11	5.02	4.89
297158CE	290	17	1/4" stereo phono audio jack, metal	42.9mm x 12.7mm Dia.	6.19	4.78	4.38	4.16
297123CE	236	16	1/4" stereo phono audio jack, RA, metal	46.4mm x 15.9mm Dia.	4.89	4.83	4.43	4.11
297140CE	238	18	1/4" stereo phono audio jack, RA, metal	41.28mm x 19.84mm Dia.	5.55	4.19	3.90	3.85
296972CE	111	19	1/4" mono phono audio jack, plastic	34.8mm x 15.87mm Dia.	1.45	1.31	1.25	1.21
297537CE	N111	19	1/4" mono phono audio jack, plastic	34.8mm x 15.87mm Dia.	1.69	1.54	1.47	1.43
302543CE	240	10	1/4" mono phono audio jack, black	78.3mm x 7.5mm ID	2.99	2.72	2.59	2.55
297115CE	228	20	1/4" mono phono audio jack, RA, metal	42.1mm x 25.4mm Dia.	4.25	3.25	3.02	2.98
296981CE	112B	19	1/4" phono audio jack, 3C, plastic	34.8mm x 15.87mm Dia.	1.45	1.31	1.25	1.21
297027CE	131	13	1/4" phono audio jack, 3C, plastic	63.5mm x 12.7mm Dia.	10.49	7.82	6.88	6.43
297271CE	515	21	1/4" jack cover	27.2mm x 21.9mm	7.15	6.95	6.79	6.63

Switchcraft®

DIN Connectors

Part No.	Product No.	Fig.	Description	Dimensions	1	10	25	100
296948CE	61HA5F	1	5-pin DIN receptacle, panel mount	20mm x 17mm Dia.	\$4.09	\$3.28	\$3.02	\$2.93
296876CE	05BL5M	2	5-pin DIN plug, metal	59.2mm x 13.6mm Dia.	4.99	4.57	4.11	3.91
296884CE	05GM5M	3	5-pin DIN plug, gray plastic	63.3mm x 13.6mm Dia.	4.55	3.72	3.28	3.12

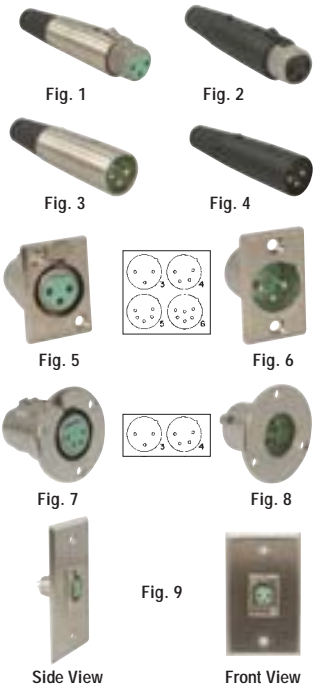


Switchcraft is a leading supplier and manufacturer of electronic and electromechanical components for the audio, video, telecommunication, computer, medical, military, appliance, transportation and instrumentation industries. Their components include jacks, connectors, jack panels, plugs, jackfields, patch cords, power plugs, switches, EAC power receptacles and molded cable assemblies.

Switchcraft®

Microphone (XLR) Connectors

Part No.	Product No.	Fig.	Description	Dimensions	1	10	25	100
277026CE	A3F	1	3-pin female, metal	82.5mm x 5.3mm Dia.	\$4.49	\$3.99	\$3.58	\$3.26
277034CE	A3FB	2	3-pin female, black	82.0mm x 5.3mm Dia.	5.19	3.99	3.65	3.33
281560CE	A3M	3	3-pin male, metal	70.3mm x 5.3mm Dia.	3.79	3.17	2.83	2.58
281578CE	A3MB	4	3-pin male, black	70.3mm x 6.1mm Dia.	4.59	3.53	3.24	2.95
297422CE	C3F	7	3-pin female, metal, panel mount	36.9mm x 36.5mm Dia.	7.85	7.04	6.22	5.63
297431CE	C3M	8	3-pin male, metal, panel mount	30.2mm x 36.3mm Dia.	5.65	4.28	3.97	3.92
281640CE	D3F	5	3-pin female, metal, panel mount	27mmW x 36.3mmH x 30.6mmD	5.89	4.50	4.13	3.75
281658CE	D3M	6	3-pin male, metal, panel mount	27mmW x 36.3mmH x 30.6mmD	4.35	3.33	3.06	2.78
281720CE	J3FS	9	3-pin female, wall plate	69.9mmW x 114.3mmH	23.19	20.88	18.79	16.82
281586CE	A4F	1	4-pin female, metal	82.0mm x 5.5mm Dia.	7.25	5.56	5.09	4.64
281594CE	A4M	3	4-pin male, metal	71.2mm x 4.8mm Dia.	4.59	4.08	3.68	3.32
297449CE	C4F	7	4-pin female, metal, panel mount	36.9mm x 36.5mm Dia.	12.15	9.11	8.35	7.97
297457CE	C4M	8	4-pin male, metal, panel mount	30.2mm x 36.3mm Dia.	7.19	5.48	5.02	4.82
281666CE	D4F	5	4-pin female, metal, panel mount	27mmW x 36.3mmH x 30.6mmD	8.35	6.38	5.85	5.32
281674CE	D4M	6	4-pin male, metal, panel mount	27mmW x 36.3mmH x 30.6mmD	5.19	3.96	3.63	3.31
281607CE	A5F	1	5-pin female, metal	82.0mm x 4.7mm Dia.	12.09	9.06	8.31	7.55
281615CE	A5M	3	5-pin male, metal	70.2mm x 5.3mm Dia.	9.35	7.18	6.58	5.92
281682CE	D5F	5	5-pin female, metal, panel mount	27mmW x 36.3mmH x 30.6mmD	13.39	10.32	9.46	8.55
281691CE	D5M	6	5-pin male, metal, panel mount	27mmW x 36.3mmH x 30.6mmD	9.25	7.01	6.43	5.84
281623CE	A6F	1	6-pin female, metal	80.2mm x 4.6mm Dia.	10.79	10.25	9.45	8.32
281631CE	A6M	3	6-pin male, metal	70.5mm x 4.5mm Dia.	9.55	8.78	8.15	7.51
281703CE	D6F	5	6-pin female, metal, panel mount	27mmW x 36.3mmH x 30.6mmD	18.95	14.19	13.02	11.83
281711CE	D6M	6	6-pin male, metal, panel mount	27mmW x 36.3mmH x 30.6mmD	12.35	11.80	9.49	8.30



Switchcraft®

RCA Plugs and Jacks

Part No.	Product No.	Fig.	Description	Dimensions	1	10	25	100
281826CE	3503	10	RCA phono audio jack, metal	43.2mm x 7.6mm ID	\$2.59	\$2.52	\$2.45	\$2.38
281818CE	3502A	11	RCA phono audio plug, nickel	42.4mm x 7.3mm ID	1.85	1.66	1.54	1.40
281800CE	3502	12	RCA mono phono audio plug, metal	33.8mmL x 5.0mm ID	1.75	1.37	1.21	1.10
281797CE	3501FP	13	RCA phono audio jack, metal	16.3mm x 6.0mm Dia.	1.29	1.00	.97	.93



Switchcraft®

Power Plugs and Jacks

Part No.	Product No.	Fig.	Description	Dimensions	1	10	25	100
281842CE	712A	14	2.5mm DC power jack, panel mount	15.8mm x 7.5mm Dia.	\$2.05	\$1.88	\$1.76	\$1.65
281851CE	722A	14	2.1mm DC power jack, panel mount	15.1mm x 7.5mm Dia.	2.09	1.94	1.87	1.80
297588CE	RAPC722	16	2.0mm x 5.5mm DC pwr. jack, RA	10.9mmH x 8.8mmW x 14.3mmD	.85	.77	.71	.68
297561CE	PC722A	15	2.0mm x 5.5mm DC power jack, metal	23.3mm x 11.0mm Dia.	2.35	2.09	1.93	1.91
297570CE	RAPC712	16	2.5mm x 5.5mm DC pwr. jack, RA	10.9mmH x 8.8mmW x 14.3mmD	.86	.77	.71	.68
297553CE	PC712A	15	2.5mm x 5.5mm DC power jack, metal	23.3mm x 11.0mm Dia.	2.99	2.77	2.59	2.53
297529CE	L712A	17	2.5mm x 5.5mm DC power jack, metal	23.3mm x 11.0mm Dia.	3.75	2.85	2.64	2.61
281877CE	760	18	2.5mm x 5.5mm DC power plug, plastic	9.6mm x 36.3mm x 5.7mm Dia.	2.15	1.94	1.76	1.66
297617CE	S760	18	2.1mm x 5.5mm DC power plug, plastic	25.4mm x 9.5mm Dia.	1.99	1.94	1.80	1.67
297289CE	761K	19	2.5mm x 5.5mm DC power plug, plastic	25.4mm x 9.5mm Dia.	3.99	3.03	2.97	2.92



Microphone (XLR) Connectors



Part No.	Cross Ref. No.	Description	1	10
319011CE	250-710	3-pin male microphone, metal	\$2.35	\$2.17
319003CE	250-720	3-pin female microphone, metal	2.29	2.20
319046CE	250-700	3-pin male microphone, metal, panel mount	3.25	2.79
319038CE	250-705	3-pin female microphone, metal, panel mount	4.15	3.39



Professional Microphone (XLR) Cables and Adapters



Part No.	Cross Ref. No.	Description	1	10
305251CE	251-310	3-pin female to female gender changer	\$7.49	\$6.99
305200CE	251-320	3-pin male to male gender changer	7.49	6.99
305285CE	251-330	1/4" jack to 3-pin female XLR adapter	8.95	7.95
305277CE	251-340	1/4" jack to 3-pin male XLR adapter	7.95	7.15
305293CE	255-290	1/4" jack to 3-pin XLR female cable, 20'	10.39	9.85
307694CE	255-293	1/4" jack to 3-pin XLR female cable, 60'	20.95	19.85

AMP USB Connectors

- Right angle
- Receptacle
- Types A and B

NEW
ON THE WEB



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See Our Complete AMP USB Series Offering at
www.Jameco.com/Prod/AMPUUSB

AMP CHAMP-Lok™ Connectors

- B-slot
- 50-positions
- Plug assembly



NEW
ON THE WEB

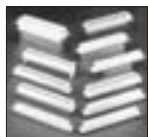
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See Our Amp Champ-Lok Connector Offering at
www.Jameco.com/Prod/AMPCHAMPLok

AMP EUROCARD™

- Types R & C
- Pin/receptacle assembly

NEW
ON THE WEB



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See Our Complete AMP EUROCARD Series Offering at
www.Jameco.com/Prod/AMPEUROCARD

AMP .062" Terminals

- Pin/socket terminals
- Commercial

NEW
ON THE WEB



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See Our Complete AMP .062" Terminal Offering at
www.Jameco.com/Prod/AMP062

AMP PLCC Socket Assemblies

- Low profile
- Surface mount
- Through hole

NEW
ON THE WEB



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See Our Complete AMP PLCC Socket Offering at
www.Jameco.com/Prod/AMPPLCC

AMP Tandem Connectors

- 0.100" centers
- Spring shunt

NEW
ON THE WEB



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See Our AMP Tandem Series Offering at
www.Jameco.com/Prod/AMPTandem

AMP EI Series Connectors

- 0.100"
- Single row
- Housing

NEW
ON THE WEB



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See Our AMP EI Series Offering at
www.Jameco.com/Prod/AMPEI

AMP Series 5000 Connectors

- Machined tooled
- DIP socket

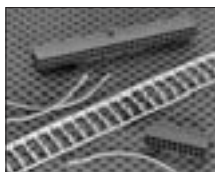


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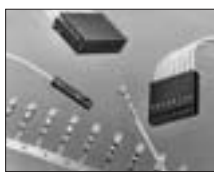
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See Our AMP Series 5000 Connector Offering at
www.Jameco.com/Prod/AMP5000

AMP AMPMODU™ Connectors



Mod I



Mod II



Mod IV



Continuous Contacts

MOD I, II, IV, V, VI & VII

- Key Plug
- Headers
- Housings
- Receptacles
- Contacts

NEW
ON THE WEB

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See Our AMP MOD Series Offering at
www.Jameco.com/Prod/AMPMOD

AMP DIP Sockets

- Ladder style
- Tin
- .300" or .600" center

NEW
ON THE WEB



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See Our AMP DIP Socket Offering at
www.Jameco.com/Prod/AMPDIP

AMP Wire & Cable Management Tools



.062" Tweezer Style Insertion
D-Sub Insertion/Extraction
Contact Insertion/Extraction
Hand Tools For IDC Connectors

Crimp Tool For CPC Connectors

Hand Tools for MTA-100 Connectors

These products ship from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

See Our AMP Hand Tool Offering at
www.Jameco.com/Prod/AMPTools

Cinch .085" IDC Connectors

- 50-pin
- Contact material: copper
- Contact plating: nickel 30µ"

NEW
ON THE WEB

Superribbon

- Plastic shell
- Male or female
- Right angle
- Insulation: glass filled polyester
- Superior strain relief



Vertical Mount Solder Tail

- Female
- Reverse type
- Metal shell
- Insulation: diallyl phthalate
- Shielding and grounding



Solder Cup

- Female
- Standard type
- Metal shell
- Insulation: diallyl phthalate
- Shielding and grounding



These products ship from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

See Our Cinch IDC Connector Series Offering at
www.Jameco.com/Prod/CinchIDC

AMP DIP Switch Assembly

- Type C
- SPST
- Standard

NEW
ON THE WEB



These products ship from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

See Complete DIP Switch Series Offering at
www.Jameco.com/Prod/AMPDIPSwitch

AMP AMPMODU™ MTE Connectors

NEW
ON THE WEB

- Housings Polarized with Latch
- Receptacle Contacts: Crimp, Snap-in, Short Point
- Receptacle Assemblies: Latched and Polarized
- Receptacle Housings: Polarized with Latch
- Pin Contacts



These products ship from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

See Our AMP AMPMODU MTE Connector Offering at www.Jameco.com/Prod/AMPMODUMTE

AMP MTA-100/MTA-156 Connectors

NEW
ON THE WEB

- Key Plugs
- Header Assemblies
- Molded Covers
- Connector Assemblies
- Housings



These products ship from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

See Our AMP MTA Connector Series Offering at www.Jameco.com/Prod/AMPMTA

AMP Edge Shunt Assemblies

NEW
ON THE WEB

- .100" Dual Beam Shunts

These products ship from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.



See Our AMP Edge Shunt Assembly Offering at www.Jameco.com/Prod/AMPShunt

AMP Mate-N-Lok™ Connectors

NEW
ON THE WEB

- Pin & Sockets
- Plug & Cap Housings
- Plugs
- Caps
- Split Pins
- Pin Header Assemblies
- Terminators
- PC Board Header Assemblies
- Free Hanging
- Panel Mounts



These products ship from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

See Our AMP Mate-N-Lok Series Offering at www.Jameco.com/Prod/AMPMateN Lok

AMP AMPLIMITE™ D-Sub Connectors

NEW
ON THE WEB

- Cable Clamp Kits
- Cable Assemblies
- Receptacle Assemblies
- Plug Assemblies
- Strain Relief Kits
- Screw Retaining Kits
- Plug/Receptacle Connectors
- Screw Lock Kits
- Jack Screws
- Hardware Kits
- Socket Assemblies
- Screw Retaining Kits
- Spring Latches
- Key Plugs
- Locking Post Kits
- Pin/Socket Contacts



These products ship from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

See Our AMPLIMITE D-Sub Connector Offering at www.Jameco.com/Prod/AMPLIMITE

AMP BNC Connectors

NEW
ON THE WEB

- SMA PCB Vertical Jacks
- BNC Solder Jacks
- BNC Commercial Plugs
- BNC PCB Jacks
- Hex Nuts/ Lock Washers



These products ship from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

See Our AMP BNC Connector Offering at www.Jameco.com/Prod/AMPBNC

AMP Fiber Optic Connectors

NEW
ON THE WEB

- MM/SM Coupling Receptacle Kits

These products ship from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.



See Our AMP Fiber Optic Connector Offering at www.Jameco.com/Prod/AMPFiberOptic

AMP AMPLATCH™ Connectors

NEW
ON THE WEB

- Receptacle Kit
- Receptacle Connectors
- Header Assembly
- Strain Relief Receptacle

These products ship from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.



See Our AMPLATCH Connector Offering at www.Jameco.com/Prod/AMPLATCH

AMP Z-Pack Connectors

NEW
ON THE WEB

- 2mm HM Type A Pre-Shielded Receptacles

These products ship from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

See Our AMP Z-Pack Connector Offering at www.Jameco.com/Prod/AMPZPack

AMP CPC Circular Plastic Connector

NEW
ON THE WEB

- Key Plugs
- Receptacle/ Plug Assemblies
- Receptacle/ Plug Housings
- Plug Assemblies
- Cable Clamp Kits
- Peripheral Seals
- Cap Assemblies
- Flexible Cable Boots
- Internal Cable Grips
- Strain Relief Assemblies



These products ship from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

See Our AMP Circular Plastic Connector Offering at www.Jameco.com/Prod/AMPCircular

Lowest Price Guarantee

Have you found a product at a lower print-advertised price? We'll beat that price by 10% right down to our cost!

www.Jameco.com

We have nearly 15,000 new items just added to our website. Log on today!

D-Sub Connectors and Contacts

AMP – Biggest Name in Quality Connectors

Color Code Legend
New Sale Lower\$ QtySave

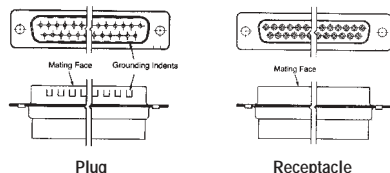
AMP

D-Subminiature Connectors

- Dielectric withstanding voltage: 1000VAC (one minute)
- Nylon, flame retardant, 94V-0 rated, glass filled
- Low-cost, high-performance, precision formed crimp contacts
- Standard mounting method with 0.120" diameter mounting holes
- Insulation resistance: 5000MΩ
- UL/CSA recognized and certified

Crimp-Type Contacts

- Current rating: 1.2A to 3.7A
- Intermateable with any size 20 D-sub dimensionally complying with MIL-C-24308
- Crimp snap-in contacts allows loading of only the number of contacts being used



Zinc-Plated Shell



Part No.	Product No.	Cont.	Description	1	10	100
222640CE	205204-1	9	Plug	\$.95	\$.86	\$.64
222658CE	205206-1	15	Plug	1.39	1.24	.92
222666CE	205208-1	25	Plug	1.05	.92	.82
222674CE	205210-1	37	Plug	1.69	1.49	1.10
222682CE	205212-1	50	Plug	2.09	1.79	1.35
222691CE	205203-1	9	Receptacle	1.10	.99	.77
222703CE	205205-1	15	Receptacle	1.25	1.10	.82
222711CE	205207-1	25	Receptacle	1.05	.95	.71
222720CE	205209-1	37	Receptacle	1.69	1.49	1.10
222738CE	205211-1	50	Receptacle	2.09	1.79	1.69

Tin-Plated Shell



Part No.	Product No.	Cont.	Description	1	10	100
222754CE	205204-3	9	Plug	\$1.29	\$1.15	\$.85
222762CE	205206-2	15	Plug	1.49	1.29	.95
222771CE	207464-1	25	Plug .....	.94	.80	.61
222789CE	205210-2	37	Plug	1.69	1.49	1.10
222797CE	205204-4	9	Plug* .....	.83	.75	.57
222800CE	205206-3	15	Plug* .....	.99	.89	.65
222818CE	207464-2	25	Plug* .....	.88	.78	.58
222826CE	205210-3	37	Plug*	1.69	1.49	1.12
222834CE	205212-3	50	Plug*	1.79	1.59	1.19
222842CE	205203-3	9	Receptacle	.69	.59	.52
222914CE	205205-2	15	Receptacle	.88	.78	.58
222922CE	207463-1	25	Receptacle	.99	.89	.68
222931CE	205209-2	37	Receptacle	1.19	1.05	.78
222949CE	205211-2	50	Receptacle	2.09	1.79	1.63

* With grounding indents

D-Sub Pin Insertion/Extraction Tools

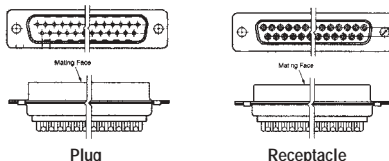
19094CE/223335CE: Plastic body; metal tips
223327CE: Handle with .050" hex wrench & exchangeable tips



Part No.	Description	1	10	100
19094CE	Red/white plastic body	\$2.79	\$2.49	\$2.15
223335CE	AMP# 91067-2	4.45	3.95	3.75
223327CE	AMP# 91285-1	19.99	18.99	17.99

Solder-Cup Contacts

- Current rating: 1.2A to 3.0A
- Intermateable with other D-sub connectors
- One-piece 94V-0 rated plastic insert
- Preloaded duplex-plated solder-cup contacts
- Shields offer full EMI shielding and ESD insulation
- Anti-solderwicking contact design



Zinc-Plated Shell



Part No.	Product No.	Cont.	Description	1	10	100
222957CE	747904-4	9	Plug	\$1.89	\$1.59	\$1.32
222965CE	747908-4	15	Plug	2.65	2.19	1.75
222973CE	747912-4	25	Plug	3.69	3.10	2.49
222981CE	747916-4	37	Plug	5.45	4.56	3.79
223036CE	747905-4	9	Receptacle	2.65	2.23	1.76
223044CE	747913-4	25	Receptacle	4.75	3.99	3.19

Tin-Plated Shell



Part No.	Product No.	Cont.	Description	1	10	100
222990CE	747904-2	9	Plug	\$1.69	\$1.55	\$1.15
223001CE	747908-2	15	Plug	2.79	2.49	1.85
223010CE	747912-2	25	Plug	3.29	2.95	2.19
223028CE	747916-2	37	Plug	5.29	4.29	3.49
223052CE	747905-2	9	Receptacle	2.35	2.09	1.55
223061CE	747909-2	15	Receptacle	3.45	2.99	2.19
223079CE	747913-2	25	Receptacle	4.09	3.69	2.72
223087CE	747917-2	37	Receptacle	6.65	5.69	4.19

AMP Plastic Hoods for D-Sub Connectors

- Cable clamp type: clam shell
- Cable exit angle: straight
- Standard clam shell length
- Body material, cable support gate, and cable clamp: thermoplastic
- Screw material: steel
- Screw plating: zinc



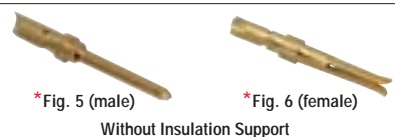
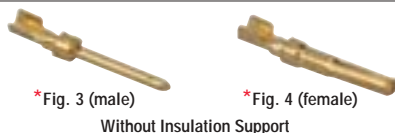
Part No.	Product No.	Positions	1	10	100
230893CE	205729-1	9	\$2.25	\$1.85	\$1.46
230906CE	205730-1	15	2.35	2.10	1.85
230914CE	205718-1	25	2.05	1.69	1.32
230922CE	205731-1	37	2.99	2.63	2.29
230931CE	205732-1	50	3.19	2.65	2.19

**Over 99% of Our Products
Are In Stock**

AMP

D-Sub Contacts

- Pin material: brass;
- socket material: phosphor bronze
- Contact plating
- *A: Select – gold flash over nickel on entire contact, with additional gold (.000030") on mating end;
- *B: Duplex – gold (.000030") on mating end, tin-lead on termination end, with entire contact nickel underplated;
- *C: gold flash over nickel on entire contact;
- *D: gold flash on mating end, tin-lead on termination end, with entire contact nickel underplated
- For use with AMP D-sub connectors (see left)
- Prepackaged: order in increments of 10, 100 or 1000



Male Crimp Contacts

Part No.	Product No.	Desc.*	AWG	10	100	1000
223095CE	1-66507-0	1C	28-24 ...	\$2.24	\$1.17	\$1.12
223124CE	66682-4	1A	28-24 .....	.22	.16	.14
223108CE	66507-9	1A	28-24 .....	.18	.12	.09
223132CE	745254-7	1C	26-22 .....	.25	.18	.128
223141CE	745254-6	1A	26-22 .....	.25	.18	.13
223159CE	1-745254-6	1B	26-22 .....	.25	.18	.13
223167CE	1-66506-0	1C	24-20 .....	.16	.15	.12
223175CE	205202-7	3C	24-20 .....	.24	.17	.14
223183CE	5-66506-9	1D	24-20 .....	.21	.15	.13
223191CE	66506-9	1A	24-20 .....	.16	.15	.10
223204CE	5-66506-7	1B	24-20 .....	.24	.17	.12
223212CE	745229-4	3A	22-18 .....	.26	.24	.19

Female Crimp Contacts

Part No.	Product No.	Desc.*	AWG	10	100	1000
223221CE	1-66505-0	2C	28-24 ...	\$1.18	\$1.12	\$.09
223239CE	66683-4	2A	28-24 .....	.16	.126	.102
223247CE	745253-6	2A	26-22 .....	.27	.20	.14
223255CE	1-66504-0	2C	24-20 .....	.17	.15	.11
223263CE	205201-7	4C	24-20 .....	.26	.214	.16
223271CE	5-66504-7	2D	24-20 .....	.16	.12	.10
223280CE	205201-5	4A	24-20 .....	.18	.147	.11
223298CE	66504-9	2A	24-20 .....	.17	.15	.13
223301CE	6-66504-0	2B	24-20 .....	.26	.214	.16

Male Solder Contact

Part No.	Product No.	Desc.*	AWG	10	100	1000
234982CE	66570-3	5A	28-24 ...	\$1.22	\$1.12	\$1.11

Female Solder Contact

Part No.	Product No.	Desc.*	AWG	10	100	1000
223319CE	66569-3	6A	18 (max.)	\$1.225	\$1.18	\$1.162

Place your order by 6PM EST for
same business day shipment.

D-Sub Connector Hoods



15085CE
Plastic



25620CE
Metallized

- Use with D-sub solder cup and housing style connectors (hardware included)

D Series: plastic hood with strain relief (gray)

MD Series: metal coated plastic hood w/ strain relief

MH Series: die-cast metal hood with strain relief

Part No.	Cross Ref. No.	Connector	1	10	100	1000
15721CE	DB9H	9-pin 1	.49	.45	.39	.35
25620CE	MDB9H	9-pin 1	.59	.49	.39	.35
147740CE	MHDB9	9-pin 1	1.45	1.29	1.15	.99
15018CE	DA15H	15-pin 1	.49	.45	.40	.35
25566CE	MDA15H	15-pin 1	.56	.44	.36	.31
15085CE	DB25H	25-pin 1	.45	.39	.35	.32
25603CE	MDB25H	25-pin 1	.59	.49	.42	.35
15106CE	MHDB25	25-pin 1	1.39	1.19	1.09	.89
15456CE	DC37H	37-pin 1	.59	.55	.45	.39
25611CE	MDC37H	37-pin 1	.75	.69	.59	.53
15659CE	DD50H	50-pin 1	.99	.85	.75	.65

25-Pin Dual Plastic Hood

Designed for custom applications requiring two D-sub connectors. Applications include custom jumper boxes and interconnects.



Shown assembled

Part No.	Description	1	10	100	500
34091CE	25-pin, plastic dual ..	\$.95	\$.85	\$.75	\$.59

4-40 Screw Hardware for D-Subminiature Connectors

4-40 x .187" Jack Screws and Standoffs



108986CE

102795CE

125014CE

*Prepackaged: order in increments of 10, 100 or 1000

Part No.	Description	1	10	100	1000
196293CE	.252"L jack screw	* .21	.12	.08	
169931CE	.275"L jack screw	* .15	.13	.11	
172603CE	.315"L jack screw	* .121	.101	.076	
102816CE	.435"L jack screw .....	.49	.46	.41	.37
108986CE	.515"L jack screw .....	.55	.50	.45	.40
125014CE	4-40 x 1.65"L plastic beige thumbscrew .....	.39	.35	.32	.25
175636CE	.187"L standoff	* .21	.15	.10	
102795CE	.236"L (6mm) standoff ..	* .21	.15	.10	

4-40 Screw Sets



102808CE

16547CE

102808CE: 4-40 screw (.30"L) and retainer set
16547CE: 4-40 x .187" jack screw (.31"L thread), washer, lock washer, and nut set

* Prepackaged: order in increments of 10, 100 or 1000

Part No.	Description	10	100	1000
102808CE	Screw/retainer set	\$.39	\$.35	\$.30
16547CE	Screw/nut set .....	.31	.25	.17

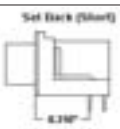
D-Subminiature Connectors

- Metal shells are tin-plated for improved EMI/RFI shielding
- Insulation resistance: minimum 1000MΩ at 500VDC
- Dielectric withstanding voltage: 1000V (one minute)

- Current rating: 1A to 5A
- High temperature thermoplastic
- Insulation material: PBT

Right Angle PC Mount

.318" Set Back



- Short style
- Lead length: .138"
- Lead spacing: .115"
- Shell: metal
- Current rating: 1A

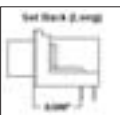


15149CE

Part No.	Cross Ref. No.	Cont.	Gender	1	10	100	500
104942CE	DB9P318	9	M	\$.55	\$.50	\$.45	\$.38
104951CE	DB9S318	9	F	\$.60	.55	.49	.45
71124CE	DA15P318	15	M	\$.69	.59	.55	.49
77956CE	DA15S318	15	F	\$.79	.69	.65	.45
168743CE	HDDB15S318*	15	M	\$.49	.48	.46	.44
71466CE	HDDB15S318*	15	F	\$.59	.53	.48	.39
15149CE	DB25P318	25	M	\$.79	.65	.55	.45
15181CE	DB25S318	25	F	\$.89	.79	.72	.65
265439CE	DSUB-25F	25	F	\$.85	.73	.62	.48
71706CE	DC37P318	37	M	\$.99	.89	.80	.66
78182CE	DC37S318	37	F	1.15	.95	.69	.49

* High Density

.590" Set Back



- Lead length: .178"
- Lead spacing: .104"
- Current rating: 1A
- Shell: metal
- Long style



104977CE

Part No.	Cross Ref. No.	Cont.	Gender	1	10	100
104969CE	DB9P590	9	M	\$.99	\$.83	\$.72
104977CE	DB9S590	9	F	.89	.79	.75
104993CE	DA15S590	15	F	1.05	.91	.63
105005CE	DB25P590	25	M	.99	.89	.79
105013CE	DB25S590	25	F	1.25	1.12	.99

Other Manufacturers — Great Deals

189624CE	DB25P590†	25	M	\$.29	\$.26	\$.24
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† Without board tabs

IDC Ribbon Cable Connectors

- Current rating: 1 amp
- Insulation material: glass-filled polyester
- Temp range: -55°C to +120°C
- Contact material: phosphor bronze
- Terminates with standard D-type connectors
- Shell: MD: metal; CD: plastic (see mfr. cross ref. no.)



12431CE

Part No.	Cross Ref. No.	Cont.	Gender	1	10	100
109225CE	MDB9P†	9	M	\$1.39	\$1.29	\$1.13
12503CE	CDB9P	9	M	2.49	1.79	1.59
109217CE	MDB9S†	9	F	1.55	1.23	1.08
12520CE	CDB9S	9	F	2.59	2.35	2.09
117381CE	MDA15P	15	M	1.65	1.32	.73
12298CE	CDA15P	15	M	1.65	1.32	.79
116011CE	MDA15S	15	F	1.55	1.25	.85
12319CE	CDA15S	15	F	1.79	1.43	.66
115983CE	MDB25P	25	M	2.05	1.83	1.54
12335CE	CDB25P	25	M	1.89	1.69	1.29
115975CE	MDB25S	25	F	2.05	1.83	1.54
12431CE	CDB25S	25	F	1.95	1.79	1.39
115991CE	MDC37P	37	M	2.39	2.15	1.55
12466CE	CDC37P	37	M	3.09	2.79	2.49
116003CE	MDC37S	37	F	3.25	2.94	2.65
12482CE	CDC37S	37	F	3.49	2.99	2.25

† Requires flat cable w/ .0625" centers

Crimp-Type Connectors & Pins

- Connectors: metal shell; removable male/female crimp pins
- Male/female pins: gold plated contact; tinned crimp tail
- Insertion/extraction tool: exchangeable tips
- Use 99442CE, pg 258 to crimp 43377CE, 43369CE



180890CE



38771CE



43369CE



19094CE

Part No.	Description	1	10	100	1000
73189CE	DB9 M housing	\$.49	\$.39	\$.31	\$.19
73197CE	DB9 F housing .....	.49	.39	.31	.19
73200CE	DA15 M housing .....	.59	.53	.48	.43
73218CE	DA15 F housing .....	.62	.56	.50	.44
180881CE	HDDB15 M housing*	1.09	.98	.78	.58
180890CE	HDDB15 F housing*	.89	.79	.72	.65
38789CE	DB25 M housing .....	.56	.44	.36	.21
38771CE	DB25 F housing .....	.55	.44	.31	.21
43377CE	M crimp pin	* .10	.09	.08	
43369CE	F crimp pin	* .10	.07	.06	
185421CE	M crimp pin (180881CE) ..	* .055	.045	.04	
185412CE	F crimp pin (180890CE) ..	* .055	.05	.04	
19094CE	Insert/extract. tool for above pins (HT101)	\$2.79	\$2.49	\$2.15	\$2.04

* High Density

Solder-Cup Connectors

- Compatible with 24 AWG communications and 22 AWG solid cable, pg 93
- Shell: metal



203799CE

Part No.	Contacts	Gender	1	10	100	1000
15747CE	9	M	\$.56	\$.44	\$.36	\$.24
15771CE	9	F	.59	.49	.44	.31
15077CE	15HD*	M	.69	.59	.49	.31
164822CE	15HD*	F	.79	.69	.59	.39
15034CE	15	M	.55	.49	.42	.29
15051CE	15	F	.59	.49	.39	.24
15114CE	25	M	.99	.89	.79	.71
15157CE	25	F	.89	.80	.69	.61
203799CE	26HD*	M	.65	.58	.52	.49
203781CE	26HD*	F	.75	.68	.61	.58
15472CE	37	M	.99	.85	.79	.49
15499CE	37	F	1.19	1.05	.85	.49
15675CE	50	M	1.65	1.49	1.35	.99
15691CE	50	F	1.79	1.39	1.32	.99

* High Density

Straight PC Mount Connectors

- Non-removable contacts
- 125 Vrms
- Current rating: 5 amps
- Operating temp.: -65°F to +250°F
- Shell: metal



15122CE



15780CE

Part No.	Cross Ref. No.	Cont.	Gender	1	10	100
111691CE	DB9PPCB	9	M	\$.55	\$.45	\$.32
15780CE	DB9SPCB	9	F	.55	.45	.32
176760CE	DA15PPCB	15	M	.49	.44	.39
176751CE	DA15SPCB	15	F	.49	.42	.31
15122CE	DB25PPCB	25	M	.65	.59	.52
15165CE	DB25SPCB	25	F	.74	.67	.39
180021CE	DC37SPCB	37	F	.85	.72	.54

.062" (1.57mm) Power Connectors

- Passive friction lock
- Voltage: 250V • Current: 5.0A
- Polarized housing assures proper mating
- Dielectric withstanding voltage: 1500VAC_{RMS}
- Contact retention to housing: 20 lbs. minimum
- Housing: nylon; UL94V-2
- Temperature range: -40°C to +105°C

Plugs



Without Mounting Ears

Part No.	Product No.	Circuits	1	10	100
224477CE	03-06-2011*	1	\$.29	\$.16	\$.13
224485CE	03-06-2023*	2	.30	.18	.15
224493CE	03-06-2032*	3	.31	.19	.16
224506CE	03-06-2042*	4	.39	.27	.24
224514CE	03-06-2044**	4	.39	.27	.24
230244CE	03-06-2055*	5	.47	.26	.24
224522CE	03-06-2061**	6	.45	.28	.25
224531CE	03-06-2092**	9	.49	.27	.24
224549CE	03-06-2122**	12	.52	.30	.25

*In-line **Grid

With Mounting Ears

Part No.	Product No.	Circuits	1	10	100
229948CE	03-06-2024*	2	\$.30	\$.17	\$.14
229964CE	03-06-2033*	3	.35	.18	.15
229981CE	03-06-2041*	4	.47	.27	.24
230009CE	03-06-2043**	4	.47	.26	.24
230025CE	03-06-2054*	5	.47	.26	.24
230041CE	03-06-2062**	6	.47	.26	.24
230068CE	03-06-2091**	9	.47	.26	.24
230084CE	03-06-2121**	12	.55	.29	.26

*In-line **Grid

Receptacles



Without Mounting Ears

Part No.	Product No.	Circuits	1	10	100
224397CE	03-06-1011*	1	\$.29	\$.16	\$.13
224400CE	03-06-1023*	2	.30	.18	.15
224418CE	03-06-1032*	3	.31	.19	.16
224426CE	03-06-1042*	4	.39	.27	.24
224434CE	03-06-1044**	4	.39	.27	.24
230252CE	03-06-1056*	5	.55	.35	.31
224442CE	03-06-1062**	6	.45	.28	.25
224451CE	03-06-1092**	9	.49	.27	.24
224469CE	03-06-1122**	12	.52	.30	.25

*In-line **Grid

With Mounting Ears

Part No.	Product No.	Circuits	1	10	100
229956CE	03-06-1022*	2	\$.31	\$.16	\$.14
229972CE	03-06-1038*	3	.32	.17	.15
229999CE	03-06-1041*	4	.49	.26	.23
230017CE	03-06-1043**	4	.49	.26	.23
230033CE	03-06-1055*	5	.59	.49	.36
230050CE	03-06-1061**	6	.47	.26	.23
230076CE	03-06-1091**	9	.47	.26	.23
230092CE	03-06-1121**	12	.49	.33	.30

*In-line **Grid

.093" (2.36mm) Power Connectors

- Passive friction lock
- Voltage: 250V
- Current: 12A per circuit
- Dielectric withstanding voltage: 1500VAC_{RMS}
- Contact retention to housing: 20 lbs. minimum
- Housing: nylon; UL94V-2
- Temperature range: -40°C to +105°C

Plugs



Without Mounting Ears

Part No.	Product No.	Circuits	1	10	100
224063CE	03-09-2011*	1	\$.29	\$.18	\$.12
224071CE	03-09-2022*	2	.30	.25	.18
224080CE	03-09-2032*	3	.41	.32	.21
224098CE	03-09-2042*	4	.45	.22	.20
229825CE	03-09-2049**	4	.45	.34	.26
230261CE	03-09-2057*	5	.55	.29	.26
224101CE	03-09-2062**	6	.49	.39	.29
224119CE	03-09-2092**	9	.55	.35	.30
224127CE	03-09-2121**	12	.69	.59	.39
462432CE	03-09-2151**	15	*.59	.485	
462441CE	03-09-2158**	15	*.58	.54	

*In-line **Grid

With Mounting Ears

Part No.	Product No.	Circuits	1	10	100
230105CE	03-09-2021*	2	\$.35	\$.18	\$.16
230121CE	03-09-2031*	3	.42	.22	.20
230148CE	03-09-2041*	4	.42	.22	.20
230164CE	03-09-2040**	4	.64	.59	.35
230181CE	03-09-2061**	6	.35	.33	.25
230201CE	03-09-2091**	9	.65	.35	.31
230228CE	03-09-2122**	12	.71	.38	.35
462459CE	03-09-2159**	15	*.72	.62	

*In-line **Grid

Receptacles



Without Mounting Ears

Part No.	Product No.	Circuits	1	10	100
224135CE	03-09-1011*	1	\$.29	\$.09	\$.08
224143CE	03-09-1022*	2	.30	.25	.18
224151CE	03-09-1032*	3	.44	.25	.16
224160CE	03-09-1042*	4	.46	.25	.22
229817CE	03-09-1049**	4	.46	.33	.25
230279CE	03-09-1057*	5	.59	.49	.32
224178CE	03-09-1064**	6	.49	.23	.20
224186CE	03-09-1094**	9	.69	.59	.39
224194CE	03-09-1126**	12	.75	.49	.39

*In-line **Grid

With Mounting Ears

Part No.	Product No.	Circuits	1	10	100
230113CE	03-09-1027*	2	\$.35	\$.17	\$.15
230130CE	03-09-1081*	3	.48	.24	.22
230156CE	03-09-1041*	4	.40	.23	.17
230172CE	03-09-1040**	4	.48	.25	.23
230199CE	03-09-1061**	6	.49	.26	.25
230210CE	03-09-1091**	9	.62	.33	.30
230236CE	03-09-1125**	12	.62	.33	.30

*In-line **Grid

To Find Additional Products In This Series,
Visit www.Jameco.com/Prod/Molex093

molex

.062" (1.57mm) Contacts

- Contact: brass or phosphor bronze
- Temp. range: -40°C to +105°C • Tin plating
- Prepackaged: order in increments of 10, 100 or 1000

Crimp-Type Contacts



Part No.	Product No.	Gender	AWG	10	100	1000
224565CE	02-06-2103	M	18-24 ...	\$.18	\$.057	\$.038
224581CE	02-06-2132	M	24-30 .....	.18	.057	.038
224557CE	02-06-1103	F	18-24 .....	.18	.057	.038
224573CE	02-06-1132	F	24-30 .....	.18	.057	.038

Solder-Tail Contacts



Part No.	Product No.	Gender	10	100	1000
227379CE	02-06-8103	Male	\$.18	\$.11	\$.066
227387CE	02-06-7103	Female	.18	.11	.066

molex

.093" (2.36mm) Contacts

- Contact: brass or phosphor bronze
- Tin plating
- Temperature range: -40°C to +105°C
- Prepackaged: order in increments of 10, 100 or 1000

Crimp-Type Contacts



Part No.	Product No.	Gender	AWG	10	100	1000
224207CE	02-09-2118	M	18-22	\$.19	\$.06	\$.04
224223CE	02-09-2103	M	14-20 .....	.18	.059	.04
224215CE	02-09-1119	F	18-22 .....	.20	.07	.04
224231CE	02-09-1104	F	14-20 .....	.18	.059	.042

To Find Additional Products In This Series,
Visit www.Jameco.com/Prod/Molex093



Part No.	Product No.	Gender	10	100	1000
224240CE	02-09-2133	Male	\$.149	\$.129	\$.091
224258CE	02-09-1134	Female	.20	.14	.09

molex

SPOX™ Crimp Terminals

- 18-22 AWG
- NEW ON THE WEB

Board-In Male

- Insulation diameter: 1.70 to 3.05mm (.067" to .120")
- Brass with tin plating

Stand Alone Board-In Male

- Insulation diameter: 1.70mm (.067")

These products ship from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD


See Complete SPOX Crimp Terminals Offering at
www.Jameco.com/Prod/MolexSPOX079

.062" Power Connector Kit

This assortment kit contains mating sets of housings and pins.

- Voltage: 250VAC • Current: 5A
- Temperature range: -40°C to +105°C

Includes: 3 ea. 2-pin plugs and 2-pin receptacles, 8 ea. male contacts and 8 ea. female contacts.



Part No.	Product No.	Description	1	10	50
142113CE	1625-2	Kit	\$5.69	\$5.15	\$4.59

.093" Power Connector Kits

These assortment kits contain mating sets of housings and pins.


- Voltage: 250VAC
- Temperature range: -40°C to +105°C

142181CE: • 3 ea. 2-pin plugs & receptacles, 8 ea. female & male contacts • Current: 12A

142201CE: • 2 ea. 4-pin plugs & receptacles, 10 ea. female & male contacts • Current: 9A

142228CE: • 2 ea. 6-pin plugs & receptacles, 14 ea. female & male contacts • Current: 9A

Includes: Male and female tin-plated standard brass .010" pins; 18-22 AWG crimp size wire



Part No.	Product No.	Description	1	10	50
142181CE	1545	2-pin kit	\$4.95	\$4.49	\$3.95
142201CE	1490	4-pin kit	5.69	5.15	4.65
142228CE	1261	6-pin kit	5.25	4.75	3.95

SPOX™ .079" Pitch Micro Wire-to-Board Housings

- Female
- Vertical wide entry
- Nylon 6/6 UL94V-0 housing
- Temp. range: -20°C to 85°C

These products ship from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

See Complete SPOX™ Series Offering at
www.Jameco.com/Prod/MolexSPOX079

MLX Series .084" (2.13mm) Power Connectors

- Voltage: 600V
- Current range: 11A to 13.5A
- Contact resistance: 3.5mΩ max.
- Insulation resistance: 1000MΩ m
- Dielectric withstanding voltage: 2900V
- Phosphor bronze header contact, tin plating
- Temp. range: -55°C to 105°C

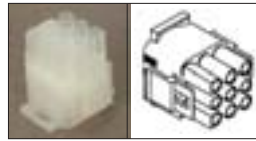
These products ship from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

See Complete MLX Series Offering at
www.Jameco.com/Prod/MolexMLX084

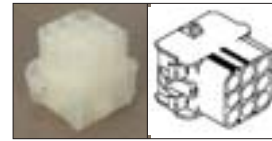
.084" (2.13mm) Pin and Socket Connectors

.084" Molex 42002 / 42021 / 42022 Series Value Equivalents

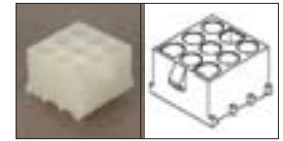
- Interchangeable, interchangeable, and intermountable with industry-standard versions
- Positive locks
- Circuit ID grooves to reduce assembly errors
- Material: Nylon 94V-2, white
- Insulation resistance: 1000MΩ
- Contact resistance: 3.5mΩ max.
- Dielectric withstanding voltage: 2900V (header); 5000V (wire to wire)
- Fully isolated contacts
- Anti-stress positioning tabs to reduce breakage
- Operating temp: -55°C to +105°C
- Voltage: 600V
- Plating: tin



379284CE
(Fig. 1)



379356CE
(Fig. 2)



379461CE
(Fig. 3)

Plugs (Fig. 1)

42021 Series Value Equivalents

- Mates w/ Series 42022 receptacles & 42002 headers

Part No.	Cross Ref. No.	Grid Layout*	A/Circuit	Max	1	10	100
379241CE	50-84-1020	1 x 2	13.5	\$.20	\$.142	\$.12	
379250CE	50-84-1030	1 x 3	13.5	.21	.158	.136	
379268CE	50-84-1040	1 x 4	13.5	.25	.19	.16	
379276CE	50-84-1060	2 x 3	11	... .27	.205	.176	
379284CE	50-84-1090	3 x 3	11	... .28	.221	.192	
379292CE	50-84-1120	3 x 4	11	... .34	.261	.224	
379305CE	50-84-1120	3 x 5	11	... .37	.285	.256	

* Grid layout is rows x columns

Receptacles (Fig. 2)

42022 Series Value Equivalents

- Mates with series 42021 plugs

Part No.	Cross Ref. No.	Grid Layout*	A/Circuit	Max	1	10	100
379313CE	50-84-2020	1 x 2	13.5	\$.20	\$.142	\$.12	
379321CE	50-84-2030	1 x 3	13.5	.21	.158	.136	
379330CE	50-84-2040	1 x 4	13.5	.25	.19	.16	
379348CE	50-84-2060	2 x 3	11	... .27	.205	.176	
379356CE	50-84-2090	3 x 3	11	... .28	.221	.192	
379364CE	50-84-2120	3 x 4	11	... .34	.261	.224	
379372CE	50-84-2150	3 x 5	11	... .37	.285	.256	

* Grid layout is rows x columns

Vertical Male Headers (Fig. 3)

42002 Series Value Equivalents

- Mates w/ Series 42022 receptacles & 42002 headers

Part No.	Cross Ref. No.	Grid Layout*	A/Circuit	Max	1	10	100
379381CE	10-84-4020	1 x 2	13.5	\$.51	\$.411	\$.36	
379401CE	10-84-4030	1 x 3	13.5	.58	.458	.40	
379428CE	10-84-4040	1 x 4	13.5	.60	.45	.384	
379444CE	10-84-4060	2 x 3	11	.70	.687	.592	
379461CE	10-84-4090	3 x 3	11	.72	.561	.52	
379487CE	10-84-4120	3 x 4	11	.83	.68	.64	
379508CE	10-84-4150	3 x 5	11	1.05	.758	.696	

* Grid layout is rows x columns

Vertical Female Headers (Fig. 3)

42002 Series Value Equivalents

- Mates w/ Series 42022 receptacles & 42002 headers

Part No.	Cross Ref. No.	Grid Layout*	A/Circuit	Max	1	10	100
379399CE	10-84-4022	1 x 2	13.5	\$.32	\$.269	\$.24	
379410CE	10-84-4032	1 x 3	13.5	.25	.244	.208	
379436CE	10-84-4042	1 x 4	13.5	.48	.395	.344	
379452CE	10-84-4062	2 x 3	11	... .70	.553	.48	
379479CE	10-84-4092	3 x 3	11	... .63	.593	.56	
379495CE	10-84-4122	3 x 4	11	... .81	.687	.616	
379516CE	10-84-4152	3 x 5	11	... .99	.727	.672	

* Grid layout is rows x columns

Contacts

Type*:

- 1: Female
- 2: Male
- A: Brass
- B: Phosphor bronze
- C: Brass standard insertion
- D: Brass low insertion

- Prepackaged: order in increments of 10, 100 or 500

Part No.	Cross Ref. No.	AWG	Type*	10	100	500
401314CE	71T-D224-LP	12-14	1A	\$.075	\$.062	\$.054
401331CE	71T-D524-LP	12-14	1B	.07	.067	.064
379524CE	71T-S224-LP	16-20	1A	.075	.062	.054
379532CE	71T-S524-LP	16-20	1B	.07	.067	.064
401306CE	71T-S224-LP	18-22	1A	.075	.062	.054
401322CE	71T-S524-LP	18-22	1B	.07	.067	.064
401357CE	70T-D214-LP	12-14	2A	.073	.066	.051
401373CE	70T-D214-LP†	12-14	2D	.073	.066	.051
379541CE	70T-S214-LP	16-20	2C	.073	.066	.051
398784CE	70T-S214-LP†	16-20	2C	.073	.066	.051
401349CE	70T-S214-LP	18-22	2A	.073	.066	.051
401365CE	70T-S214-LP†	18-22	2D	.073	.066	.051

† For 6-15 circuit connectors

Molex Connector Extraction Tools



Part No.	Product No.	AWG	1	10
142156CE / 142236CE	W-HT-2285	18-30	\$14.49	\$13.49
227467CE / 227395CE	W-HT-2023	18-30	11.99	10.99
236128CE	W-HT-2038	14-30	14.49	13.49
234940CE	W-HT-2054	14-30	11.99	10.99
142156CE / 142236CE	W-HT-1884	22-30	9.99	8.99
234940CE	11-03-0022	22-30	14.99	12.99

Extraction Tools for Crimp Pins

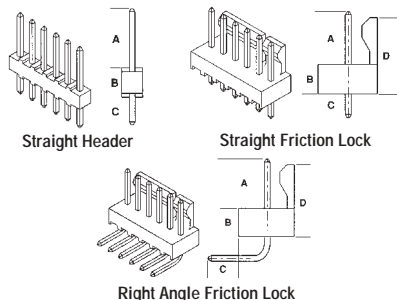
- Quickly and easily extract .093" locking pins from interlocking connectors
- Length: 5"
- See left and pg 127 for crimp pins
- 131887CE:** Male tool for 42729CE
- 131879CE:** Female tool for 42649CE



Part No.	Product No.	1	10
131887CE	HT319C	\$10.95	\$9.86
131879CE	HT319B	11.29	8.47

KK® Series .100" (2.54mm) Male Headers

- Voltage: 250V • Current: 4.0A • Contact resistance: 20mΩ max. • Housing: nylon, UL94V-0
- Dielectric withstanding voltage: 1500V • Insulation resistance: 50,000MΩ min.
- Contact: brass, 0 – 6.4mm (0.25") square • Durability: tin – 25 cycles max.; gold – 100 cycles max.



Straight Headers (Tin)

- Dimensions: (A) .295"; (B) .130"; (C) .135"

*Prepackaged: order in increments of 10 or 100

Part No.	Product No.	Positions	1	10	100
232178CE	22-03-2021	2	* .10	.09	
232186CE	22-03-2031	3	* .16	.14	
232194CE	22-03-2041	4	* .21	.19	
232207CE	22-03-2051	5 .....	.29	.26	.24
232215CE	22-03-2061	6 .....	.34	.31	.27
232223CE	22-03-2081	8 .....	.40	.37	.33
232231CE	22-03-2101	10 .....	.46	.42	.37
232240CE	22-03-2121	12 .....	.56	.51	.45

Straight Friction Lock Headers (Tin)

- Dimensions: (A) .295"; (B) .125"; (C) .140"; (D) .322"

Part No.	Product No.	Positions	1	10	100
232266CE	22-23-2021	2	\$.29	\$.23	\$.15
232274CE	22-23-2031	3 .....	.35	.30	.19
232282CE	22-23-2041	4 .....	.42	.36	.23
232291CE	22-23-2051	5 .....	.49	.42	.27
232303CE	22-23-2061	6 .....	.55	.48	.31
232311CE	22-23-2071	7 .....	.63	.55	.36
232320CE	22-23-2081	8 .....	.72	.63	.41
232338CE	22-23-2091	9 .....	.76	.66	.37
232346CE	22-23-2101	10 .....	.80	.70	.46
232354CE	22-23-2121	12 .....	.95	.83	.55

Right Angle Friction Lock Headers (Tin)

- Dimensions: (A) .260"; (B) .125"; (C) .141"; (D) .322"

Part No.	Product No.	Positions	1	10	100
233437CE	22-05-3021	2	\$.42	\$.36	\$.22
233445CE	22-05-3031	3 .....	.56	.49	.30
233453CE	22-05-3041	4 .....	.71	.61	.39
233461CE	22-05-3051	5 .....	.77	.67	.43
233470CE	22-05-3061	6 .....	.85	.74	.48
233488CE	22-05-3071	7 .....	.99	.79	.56
233496CE	22-05-3081	8	1.03	.83	.58
233509CE	22-05-3101	10	1.08	.94	.61
233517CE	22-05-3121	12	1.19	.99	.69

Straight Friction Lock Headers (Gold)

- Dimensions: (A) .295"; (B) .125"; (C) .140"; (D) .322"

Part No.	Product No.	Positions	1	10	100
233584CE	22-11-2022	2	\$.54	\$.46	\$.29
233592CE	22-11-2032	3 .....	.85	.74	.47
233605CE	22-11-2042	4 .....	.87	.76	.49
233613CE	22-11-2052	5	1.22	1.06	.69
233621CE	22-11-2062	6	1.34	1.17	.76
233630CE	22-11-2072	7	1.55	1.36	.89
233648CE	22-11-2082	8	1.65	1.42	.93
233656CE	22-11-2102	10	2.05	1.77	1.16
233664CE	22-11-2122	12	2.39	2.12	1.39

Right Angle Friction Lock Headers (Gold)

- Dimensions: (A) .260"; (B) .125"; (C) .141"; (D) .322"

Part No.	Product No.	Positions	1	10	100
233672CE	22-12-2024	2	\$.89	\$.77	\$.48
233681CE	22-12-2034	3	1.15	.99	.63
233699CE	22-12-2044	4	1.36	1.19	.76
233701CE	22-12-2054	5	1.49	1.31	.84
233710CE	22-12-2064	6	1.65	1.43	.92
233728CE	22-12-2084	8	1.85	1.51	1.05

For additional Molex Products see our new and improved www.Jameco.com.

KK® Series .100" (2.54mm) Female Housing & Crimp Contacts

- Voltage: 250V
- Current: phosphor bronze – 4.0A max.; brass – 2.5A max.
- Contact resistance: 20mΩ max.
- Dielectric withstanding volt.: 1500VAC
- Insulation resistance: 50,000MΩ

Housing Material:

- Contact insertion force: 1.5 lbs. max.
- Contact retention to housing: 8 lbs. min.
- Housing: nylon, UL94V-0
- Operating temperature: 0 to 75°C



Housing with Locking Ramp & Polarizing Ribs

Part No.	Product No.	Positions	1	10	100
234798CE	22-01-3027	2	\$.29	\$.17	\$.10
234801CE	22-01-3037	3 .....	.29	.21	.13
234819CE	22-01-3047	4 .....	.31	.27	.17
234827CE	22-01-3057	5 .....	.36	.31	.20
234835CE	22-01-3067	6 .....	.42	.36	.23
234843CE	22-01-3077	7 .....	.47	.41	.26
234851CE	22-01-3087	8 .....	.54	.47	.30
234860CE	22-01-3097	9 .....	.58	.50	.32
234878CE	22-01-3107	10 .....	.65	.55	.35
234886CE	22-01-3127	12 .....	.76	.66	.42

Housing with Locking Ramp

Part No.	Product No.	Positions	1	10	100
234704CE	22-01-2027	2	\$.29	\$.15	\$.09
234712CE	22-01-2037	3 .....	.29	.20	.12
234721CE	22-01-2047	4 .....	.29	.24	.15
234739CE	22-01-2057	5 .....	.33	.28	.17
234747CE	22-01-2067	6 .....	.36	.32	.20
234755CE	22-01-2087	8 .....	.47	.41	.26
234763CE	22-01-2097	9 .....	.51	.44	.28
234771CE	22-01-2107	10 .....	.57	.49	.31
234780CE	22-01-2127	12 .....	.67	.58	.37

Crimp Contacts

- Accommodates 22 to 30 AWG
- Material: brass or phosphor bronze
- Insulation range: 0.062" (1.58mm) diameter max.
- Prepackaged: order in increments of 10, 100 or 1000

234923CE: Brass with tin plating

234931CE: Brass with 15µ" select gold plating

Part No.	Product No.	10	100	1000
234923CE	08-50-0114	\$.065	\$.048	\$.029
234931CE	08-55-0102	.22	.17	.11



.100" (2.54mm) IDC Headers

- Housing: UL94V-0 rated, polyester, natural color



Narrow Flat Headers



Fig. 1 (347266CE)



Fig. 2 (347371CE)



Fig. 3 (347442CE)

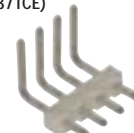


Fig. 4 (347531CE)

- Posts: copper alloy, tin plated
- Base dimensions: 0.092"W x 0.1"H

*Prepackaged: order in increments of 10 or 100

Straight Post – Tin Plated

Part No.	Cross Ref.	Fig.	Pos.	1	10	100
347240CE	644456-2	1	2	* .136	\$.099	
347258CE	644456-3	1	3 .....	.20	.168	.123
347266CE	644456-4	1	4 .....	.22	.209	.163
347274CE	644456-5	1	5 .....	.28	.266	.204
347282CE	644456-6	1	6 .....	.30	.246	.223
347291CE	644456-7	1	7 .....	.30	.269	.192
347303CE	644456-8	1	8 .....	.41	.328	.297
347311CE	644456-9	1	9 .....	.45	.368	.334
347320CE	1-644456-0	1	10 .....	.51	.409	.371

Straight Post w/ Retentive Leg – Tin Plated

Part No.	Cross Ref.	Fig.	Pos.	1	10	100
347338CE	644695-2	2	2	* .112	\$.109	
347346CE	644695-3	2	3	* .12	.117	
347354CE	644695-4	2	4	* .183	.179	
347362CE	644695-5	2	5 .....	.23	.22	.192
347371CE	644695-6	2	6 .....	.25	.248	.245
347389CE	644695-7	2	7 .....	.29	.288	.286
347397CE	644695-8	2	8 .....	.33	.328	.326
347400CE	644695-9	2	9 .....	.37	.368	.367
347418CE	1-644695-0	2	10 .....	.41	.409	.408

Right Angle Post – Tin Plated

Part No.	Cross Ref.	Fig.	Pos.	1	10	100
347426CE	644457-2	3	2	* .116	\$.085	
347434CE	644457-3	3	3	* .151	.111	
347442CE	644457-4	3	4 .....	.23	.229	.17
347451CE	644457-5	3	5 .....	.20	.189	.176
347469CE	644457-6	3	6 .....	.31	.30	.232
347477CE	644457-7	3	7 .....	.99	.98	.748
347485CE	644457-8	3	8 .....	.42	.40	.309
347493CE	644457-9	3	9 .....	.48	.475	.348
347506CE	1-644457-0	3	10 .....	.53	.528	.386

Right Angle Post w/ Retentive Leg – Tin Plated

Part No.	Cross Ref.	Fig.	Pos.	1	10	100
347514CE	644694-2	4	2	* .102	\$.081	
347522CE	644694-3	4	3	* .125	.122	
347531CE	644694-4	4	4	* .172	.171	
347549CE	644694-5	4	5 .....	.24	.238	.234
347557CE	644694-6	4	6 .....	.26	.259	.255
347565CE	644694-7	4	7 .....	.30	.299	.297
347573CE	644694-8	4	8 .....	.34	.339	.326
347581CE	644694-9	4	9 .....	.39	.388	.382
347590CE	1-644694-0	4	10 .....	.43	.428	.425

To Find Additional KK .100" Products In This Series, Visit www.Jameco.com/Prod/MolexKK100

- .100" (2.54mm) IDC Headers (Continued)**
- Housing: UL94V-0 rated, polyester, natural color
 - Friction Lock Headers**
 - Posts: copper alloy, gold over nickel plated



Straight Post – Gold Plated

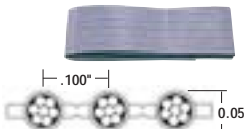
Part No.	Cross Ref.	Fig.	Pos.	1	10	100	
348058CE	641215-2	1	2	.....	\$.37	\$.304	\$.276
348066CE	641215-3	1	3	.....	.42	.387	.368
348074CE	641215-4	1	4	.....	.52	.474	.456
348082CE	641215-5	1	5	.....	.91	.74	.671
348091CE	641215-6	1	6	.....	.74	.672	.648
348103CE	641215-7	1	7	.....	.82	.743	.712
348111CE	641215-8	1	8	.....	.50	.495	.492
348120CE	641215-9	1	9	.....	1.34	1.088	.987
348138CE	1-641215-0	1	10	.....	1.05	.956	.92

Right Angle Post – Gold Plated

Part No.	Cross Ref.	Fig.	Pos.	1	10	100
348234CE	641216-2	2	2	\$.56	\$.559	\$.416
348242CE	641216-3	2	3 .....	.78	.779	.573
348251CE	641216-4	2	4 .....	.95	.948	.694
348269CE	641216-5	2	5 .....	.82	.743	.712
348277CE	641216-6	2	6	1.25	1.241	.908
348285CE	641216-7	2	7	1.29	1.28	.947
348293CE	641216-8	2	8 .....	.65	.62	.58
348306CE	641216-9	2	9	1.45	1.43	1.046
348314CE	1-641216-0	2	10	1.15	1.043	.992

.100" (2.54mm) Flat Ribbon Cable

- 10-conductor
- 24 AWG stranded
- Insulation material: 7mm polyvinyl chloride (PVC) gray
- Rated temp.: 105°C
- Rated voltage: 300V
- Dielectric strength: 2kV in 1 min.
- Insulation resistance: 100MΩ
- Capacitance: 31pF/m • Inductance: 1.45μH/m



Part No.	Cross Ref.	Length (Ft.)	1	10	25
363813CE	H24G-10-10	10	\$8.99	\$8.49	\$7.99
363821CE	H24G-10-25	25	19.99	18.99	17.99
363856CE	H24G-10-100	100	69.99	64.99	59.99
363864CE	H24G-10-250	250 [†]	199.99	174.99	149.99

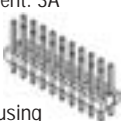
↑ 250 ft. full reel



C-GRID™ Pitch Breakaway Headers

Vertical & Right Angle Dual Row

- Voltage rating: 250VAC • Current: 3A
- Contact resistance: 15mΩ max.
- Insulation resistance: 1000MΩ min.
- Dielectric withstand voltage: 1500V
- High-temperature thermal plastic or glass-filled polyester UL94V-0 housing
- Phosphor bronze contact
- Temp. range: -40°C to 105°C



NEW
ON THE WEB

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See Complete C-GRID™ Series Offering at
www.Jameco.com/Prod/MolexCGrid

.100" (2.54mm) IDC Connectors

A Jameco EXCLUSIVE

- Voltage rating: 250VAC
- Current rating: 4A max.
- Dielectric withstanding voltage: 750VAC/1 min.
- Low-level resistance: 5mΩ max. initial
- Insulation resistance: 5000MΩ min. initial

345640CE
Closed-End Style
w/o Polarizing Tab

345981CE
Closed-End Style
w/ Polarizing Tab

346431CE
Feed-Thru Style
w/o Polarizing Tab


346790CE
Feed-Thru Style
w/ Polarizing Tab

Closed-End Style								Feed-Thru Style									
Without Polarizing Tabs								Without Polarizing Tabs									
*Prepackaged: order in increments of 10 or 100								*Prepackaged: order in increments of 10 or 100									
Part No.	Cross Ref.	Pos.	AWG	Color	1	10	100	Part No.	Cross Ref.	Pos.	AWG	Color	1	10	100		
345631CE	640440-5	5	22	Red	...	\$.20	\$.122	\$.121	346327CE	640620-2	2	22	Red	.....	* \$.082	\$.081	
345640CE	640440-6	6	22	Red	.....	.21	.131	.13	346335CE	640620-3	3	22	Red	.....	* .089	.088	
345658CE	640440-7	7	22	Red	.....	.25	.152	.151	346343CE	640620-4	4	22	Red	.....	* .096	.095	
345666CE	640440-8	8	22	Red	.....	.28	.174	.166	346351CE	640620-5	5	22	Red	.....	* .122	.104	
345674CE	640440-9	9	22	Red	.....	.53	.371	.232	346360CE	640620-6	6	22	Red	.....	* .131	.13	
345682CE	1-640440-0	10	22	Red	.....	.35	.218	.184	346378CE	640620-7	7	22	Red	.....	.20	.152	.144
345738CE	640441-6	6	24	White	....	*	.131	.13	346386CE	640620-8	8	22	Red	.....	.20	.174	.152
345746CE	640441-7	7	24	White	....	.25	.152	.142	346394CE	640620-9	9	22	Red	.....	.57	.56	.55
345754CE	640441-8	8	24	White	....	.20	.174	.158	346407CE	1-640620-0	10	22	Red	.....	.29	.218	.20
345762CE	640441-9	9	24	White	....	.72	.622	.545	346423CE	640621-3	3	24	White	....	*	.087	.083
345771CE	1-640441-0	10	24	White	...	.26	.218	.217	346431CE	640621-4	4	24	White	....	*	.096	.092
With Polarizing Tabs								With Polarizing Tabs									
Part No.	Cross Ref.	Pos.	AWG	Color	1	10	100	Part No.	Cross Ref.	Pos.	AWG	Color	1	10	100		
345965CE	643813-2	2	22	Red	.....	*	\$.057	\$.056	346458CE	640621-6	6	24	White	....	*	.131	.128
345973CE	643813-3	3	22	Red	.....	*	.07	.069	346466CE	640621-7	7	24	White	....	.20	.152	.148
345981CE	643813-4	4	22	Red	.....	*	.123	.104	346474CE	640621-8	8	24	White	....	.23	.174	.168
345990CE	643813-5	5	22	Red	.....	.20	.157	.142	346482CE	640621-9	9	24	White	1.09	1.05	.99	
346001CE	643813-6	6	22	Red	.....	.21	.174	.128	346491CE	1-640621-0	10	24	White	...	.29	.218	.217
With Polarizing Tabs								With Polarizing Tabs									
Part No.	Cross Ref.	Pos.	AWG	Color	.....	1	10	100	Part No.	Cross Ref.	Pos.	AWG	Color	.....	1	10	100
346685CE	644540-2	2	22	Red	.....	*	\$.104	\$.095	346693CE	644540-3	3	22	Red	.....	*	.116	.106
346706CE	644540-4	4	22	Red	.....	*	.123	.112	346714CE	644540-5	5	22	Red	.....	.20	.157	.142
346722CE	644540-6	6	22	Red	.....	.21	.168	.153	346731CE	644540-7	7	22	Red	.....	.25	.243	.178
346749CE	644540-8	8	22	Red	.....	.28	.276	.203	346765CE	1-644540-0	10	22	Red	.....	.35	.347	.255
346773CE	644563-2	2	24	White	....	*	.101	.092	346781CE	644563-3	3	24	White	....	*	.11	.10
346790CE	644563-4	4	24	White	....	*	.123	.112	346811CE	644563-6	6	24	White	...	.21	.168	.153
346829CE	644563-7	7	24	White	....	.25	.196	.178	346837CE	644563-8	8	24	White	....	.28	.223	.203
346853CE	1-644563-0	10	24	White	....	.35	.28	.255									

AMP

T-Handle Tool

• For .100" (2.54mm) IDC connectors



.100" (2.54mm) Strain Relief Covers

A Jameco EXCLUSIVE

326051CE
(Fig. 1)

326123CE
(Fig. 2)

*Prepackaged: order in increments of 10 or 100

Closed-End Style							Feed-Thru Style								
Part No.	Cross Ref.	Fig.	Pos.	1	10	100	Part No.	Cross Ref.	Fig.	Pos.	1	10	100		
326019CE	643075-2	1	2	.....	\$.24	\$.142	\$.139	326107CE	643077-2	2	2	.....	\$.35	\$.285	\$.26
326027CE	643075-3	1	3	.....	.34	.237	.152	326115CE	643077-3	2	3	.....	*	.097	.088
326035CE	643075-4	1	4	.....	.25	.153	.144	326123CE	643077-4	2	4	.....	.31	.274	.248
326043CE	643075-5	1	5	.....	.25	.198	.159	326131CE	643077-5	2	5	.....	.39	.351	.319
326051CE	643075-6	1	6	.....	.20	.15	.104	326140CE	643077-6	2	6	.....	.43	.373	.338
326060CE	643075-7	1	7	.....	.59	.521	.472	326158CE	643077-7	2	7	.....	.45	.398	.36
326078CE	643075-8	1	8	.....	.39	.269	.176	326166CE	643077-8	2	8	.....	.50	.442	.40
326086CE	643075-9	1	9	.....	.59	.521	.448	326174CE	643077-9	2	9	.....	.57	.514	.496
326094CE	1-643075-0	1	10	.....	.36	.261	.16	326182CE	1-643077-0	2	10	.....	.57	.514	.496



.118" (3.0mm) Single and Dual Row Micro-Fit Connectors

Molex Micro-Fit 3.0™ Series Value Equivalents



338386CE
(Fig. 1)



338335CE
(Fig. 2)



338343CE
(Fig. 3)



337682CE
(Fig. 4)



337607CE
(Fig. 5)



337615CE
(Fig. 6)



338520CE
(Fig. 7)



338044CE
(Fig. 8)



338079CE
(Fig. 9)

Single Row Crimp Housing

- Positive latching to mating headers or plugs
- Fully isolated contacts
- Integral pull tabs for ease in unmating
- Receptacle mates with 43640 and 43650 series

Receptacles (Fig. 1)

Part No.	Cross Ref. No.	Positions	1	10	100
338351CE	43645-0200	2	\$.20	\$.166	\$.152
338360CE	43645-0300	3 .....	.20	.174	.168
338378CE	43645-0400	4 .....	.21	.19	.184
338634CE	43645-0500	5 .....	.23	.213	.20
338386CE	43645-0600	6 .....	.26	.229	.216

Plugs – Panel Mount (Fig. 2)

Part No.	Cross Ref. No.	Positions	1	10	100
338255CE	43640-0200	2	\$.20	\$.166	\$.152
338271CE	43640-0300	3 .....	.23	.205	.20
338298CE	43640-0400	4 .....	.32	.307	.276
338319CE	43640-0500	5 .....	.35	.33	.303
338335CE	43640-0600	6 .....	.38	.368	.323

Plugs – Free Hanging (Fig. 3)

Part No.	Cross Ref. No.	Positions	1	10	100
338263CE	43640-0201	2	\$.20	\$.166	\$.152
338280CE	43640-0301	3 .....	.20	.174	.168
338301CE	43640-0401	4 .....	.21	.19	.184
338327CE	43640-0501	5 .....	.50	.449	.303
338343CE	43640-0601	6 .....	.34	.332	.248

Double Row Crimp Housing

- Fully isolated contacts
- Wire to wire
- Housing: UL94V-0
- Fully polarized
- Voltage/current rating: 250V @ 5.0A (max.)
- Mates with 43020 and 43045 series
- Contact resistance: 10mΩ (max.)
- Contacts: tin or 30µ" gold plating over phosphor bronze

Receptacles (Fig. 4)

Part No.	Cross Ref. No.	Positions	1	10	100
337666CE	43025-0200	2	\$.20	\$.174	\$.144
337674CE	43025-0400	4 .....	.23	.213	.192
337682CE	43025-0600	6 .....	.28	.253	.232
337691CE	43025-0800	8 .....	.33	.292	.264
337703CE	43025-1000	10 .....	.36	.332	.272
337711CE	43025-1200	12 .....	.45	.403	.368
337842CE	43025-1600	16 .....	.52	.443	.384
337851CE	43025-1800	18 .....	.71	.648	.544
337869CE	43025-2000	20 .....	.95	.856	.705
337877CE	43025-2400	24 .....	.82	.784	.68

Plugs – Panel Mount (Fig. 5)

Part No.	Cross Ref. No.	Positions	1	10	100
337586CE	43020-0200	2	\$.21	\$.182	\$.152
337594CE	43020-0400	4 .....	.23	.213	.184
337607CE	43020-0600	6 .....	.29	.261	.24
337623CE	43020-0800	8 .....	.35	.261	.224
337640CE	43020-1000	10 .....	.40	.356	.328
337826CE	43020-1200	12 .....	.45	.403	.368
337834CE	43025-1400	14 .....	.49	.442	.36

Double Row Crimp Housing (Continued)

Plugs – Free Hanging (Fig. 6)

Part No.	Cross Ref. No.	Positions	1	10	100
337800CE	43020-0201	2	\$.21	\$.182	\$.168
337818CE	43020-0401	4 .....	.29	.253	.194
337615CE	43020-0601	6 .....	.31	.237	.20
337631CE	43020-0801	8 .....	.40	.363	.304
337658CE	43020-1001	10 .....	.46	.419	.336

Single Row PCB Headers

- Snap-in peg locks header to PCB for retention
- Surface mount compatible
- Fully polarized to mating receptacle
- Mates with 43645 series
- Wire to board

Right Angle w/ Snap-In Plastic Peg – Tin (Fig. 7)

Part No.	Cross Ref. No.	Positions	1	10	100
338394CE	43650-0200	2	\$.39	\$.332	\$.296
338431CE	43650-0300	3 .....	.41	.379	.344
338466CE	43650-0400	4 .....	.43	.395	.36
338491CE	43650-0500	5	1.15	1.08	.838
338520CE	43650-0600	6 .....	.99	.80	.729

Right Angle w/ Snap-In Plastic Peg – 15µ" gold (Fig. 7)

Part No.	Cross Ref. No.	Positions	1	10	100
338407CE	43650-0201	2	\$.61	\$.561	\$.512
338642CE	43650-0301	3	1.09	1.03	.791
338651CE	43650-0401	4	1.25	1.17	.911

Double Row PCB Headers

- Surface mount compatible
- with PCB polarizing pegs
- Fully polarized to mating receptacle

Right Angle w/ Snap-In Plastic Peg – Tin (Fig. 8)

Part No.	Cross Ref. No.	Positions	1	10	100
337885CE	43045-0200	2	\$.35	\$.316	\$.264
337965CE	43045-0400	4 .....	.51	.443	.40
338044CE	43045-0600	6 .....	.55	.514	.456
338544CE	43045-0800	8 .....	.70	.616	.56
338562CE	43045-1000	10 .....	.78	.719	.656
338212CE	43045-1200	12 .....	.89	.84	.77
338571CE	43045-1400	14	1.09	.99	.912
338597CE	43045-1600	16	1.25	1.15	1.04
338600CE	43045-2000	20	1.39	1.30	1.20

Right Angle w/ Snap-In Plastic Peg – Gold (Fig. 8)

Part No.	Cross Ref. No.	Positions	1	10	100
337893CE	43045-0202	2	\$.51	\$.458	\$.416
337973CE	43045-0402	4 .....	.67	.632	.568
338052CE	43045-0602	6 .....	.99	.88	.794
338116CE	43045-0802	8	1.05	1.00	.899
338167CE	43045-1002	10	1.25	1.14	1.04
338221CE	43045-1202	12	1.39	1.32	1.19
338589CE	43045-1402	14	1.59	1.46	1.36
338618CE	43045-2202	22	2.39	2.17	2.08
338626CE	43045-2402	24	6.09	5.84	4.47

Double Row PCB Headers (Continued)

Vertical Thru Hole – Tin (Fig. 9)

Part No.	Cross Ref. No.	Positions	1	10	100
337922CE	43045-0212	2	\$.59	\$.561	\$.408
338001CE	43045-0412	4 .....	.39	.332	.304
338079CE	43045-0612	6 .....	.47	.419	.376
338132CE	43045-0812	8 .....	.70	.632	.576
338175CE	43045-1012	10 .....	.65	.593	.56
338239CE	43045-1212	12 .....	.82	.735	.664

Vertical Thru Hole – Gold (Fig. 9)

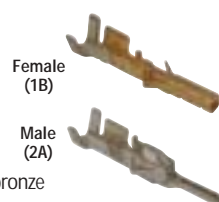
Part No.	Cross Ref. No.	Positions	1	10	100
337931CE	43045-0214	2	\$.49	\$.451	\$.408
338010CE	43045-0414	4 .....	.59	.514	.48
338087CE	43045-0614	6 .....	.79	.72	.656
338141CE	43045-0814	8 .....	.99	.888	.81
338183CE	43045-1014	10	2.25	2.05	1.75
338247CE	43045-1214	12	1.39	1.30	1.22

Female & Male Contacts

Type*:

- 1: female
- 2: male

- A: tin plating over phosphor bronze
B: 30µ" select gold over nickel over phosphor bronze



* Prepackaged: order in increments of 10 or 100

Part No.	Cross Ref. No.	AWG	Type*	1	10	100
337720CE	43030-0007	20-24	1A	* \$.094	\$.072	
337738CE	43030-0009	26-30	1B .....	.20	.182	.16
337746CE	43030-0010	20-24	1A	* .096	.081	
337754CE	43030-0012	26-30	1B .....	.20	.174	.16
337762CE	43031-0007	20-24	2A	* .087	.064	
337771CE	43031-0009	26-30	2B	* .135	.104	
337789CE	43031-0010	20-24	2A	* .085	.072	
337797CE	43031-0012	26-30	2B	* .134	.12	

Extraction Tool

- Length: 3.0"

Part No.	Cross Ref. No.	1	5
338669CE	11-03-0043	\$14.99	\$11.49

Crimp Tool

- Length: 8.25"

Part No.	Cross Ref. No.	1	5	10
338677CE	HD-225D	\$24.99	\$22.99	\$19.99

Committed to You

We're committed to providing you with the best service in the industry.

.125" (3.18mm) HCS-125 Pin & Socket Housing

- Current: 20A
 - Nylon 66 UL94V-2
 - Temp rating: -40°C to 105°C
- Plugs without ears, receptacles with & without ears.

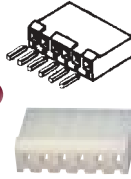
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See Our Molex .125" Series Offering at
www.Jameco.com/Prod/Molex125

.156" (3.9mm) Center Housing Connectors

- Common to many power supplies carried by Jameco. Some power supplies (pgs 0-175) may require multiple connectors
- Housing material: nylon 66, UL94V-2
- Use with crimp pins, 78318CE, below



* Prepackaged: order in increments of 10, 100, 1000

Part No.	Cross Ref. No.	Pins	1	10	100	1000
176743CE	LCH2	2	..... *	\$.07	\$.045	\$.04
104432CE	LCH3	3	..... *	.19	.12	.11
104715CE	LCH4	4	..... *	.22	.15	.12
104723CE	LCH5	5	..... .24	.22	.16	.12
104731CE	LCH6	6	..... .33	.30	.24	.15
104766CE	LCH10	10	..... .39	.32	.28	.23

.156" (3.9mm) Center Crimp Pin

- Pin wire gauge: 18-24 AWG
- Material: brass/tin plated
- Use with .156 housings (above)



Prepackaged: order in increments of 10, 100, 1000

Part No.	Mfr. Cross Ref. No.	10	100	1000
78318CE	JS-5001-T	..... \$ .11	..... \$ .08	..... \$ .07

.156" Female Crimp Pins

- Pin wire gauge: 18-22 AWG
- Material: tin-plated brass
- Use 99442CE crimping tool, pg 258

Prepackaged: order in increments of 10, 100 or 1000

Part No.	Mfr. Cross Ref. No.	10	100	1000
154093CE	LRPIN	..... \$ .061	..... \$ .05	..... \$ .035

AMP T-Handle Tool

- For .156" IDC connectors



Part No.	Product No.	Description	Price
404540CE	59804-1	0.156" hand tool \$20.89

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Our knowledgeable Tech Support department is ready to answer your questions. Just call us! 1-800-831-4242

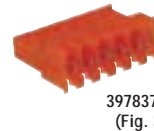
.156" (3.96mm) IDC Connectors AMP MTA-156 Series Value Equivalents



397474CE
(Fig. 1)



397749CE
(Fig. 2)



397837CE
(Fig. 3)



398101CE
(Fig. 4)

Closed-End Style

With Locking Ramp and w/o Polarizing Tabs (Fig. 1)

- Orange • AWG: 18
- * Prepackaged: order in increments of 10, 100, 1000

Part No.	Cross Ref. No.	Positions	1	10	100
397431CE	640426-2	2	..... *	\$.103	\$.08
397440CE	640426-3	3	..... .20	.167	.151
397458CE	640426-4	4	..... .21	.158	.142
397466CE	640426-5	5	..... .26	.205	.144
397474CE	640426-6	6	..... .20	.139	.134

- Yellow • AWG: 20

Part No.	Cross Ref. No.	Positions	1	10	100
397520CE	640427-2	2	..... *	\$.117	\$.105
397538CE	640427-3	3	..... *	.139	.12
397546CE	640427-4	4	..... .20	.166	.128
397554CE	640427-5	5	..... .63	.491	.44
397562CE	640427-6	6	..... .21	.154	.138

With Locking Ramp and Polarizing Tabs (Fig. 2)

- Orange • AWG: 18

Part No.	Cross Ref. No.	Positions	1	10	100
397618CE	643817-2	2	..... *	\$.126	\$.12
397626CE	643817-3	3	..... *	.138	.133
397634CE	643817-4	4	..... *	.126	.12
397642CE	643817-5	5	..... .37	.294	.277
397651CE	643817-6	6	..... .20	.15	.144

- Yellow • AWG: 20

Part No.	Cross Ref. No.	Positions	1	10	100
397706CE	643818-2	2	..... *	\$.117	\$.105
397714CE	643818-3	3	..... .20	.18	.168
397722CE	643818-4	4	..... .20	.181	.16
397731CE	643818-5	5	..... .45	.367	.333
397749CE	643818-6	6	..... .20	.139	.134

Strain Relief Covers for Closed-End Style

Part No.	Cross Ref. No.	Positions	1	10	100
398696CE	643067-2	2	..... .20	\$.16	\$.14
398709CE	643067-3	3	..... .31	.235	.161
398717CE	643067-4	4	..... .33	.256	.17
398725CE	643067-5	5	..... .67	.616	.508
398733CE	643067-6	6	..... .34	.261	.192

Feed-Thru Style

With Locking Ramp and w/o Polarizing Tabs (Fig. 3)

- Orange • AWG: 18
- * Prepackaged: order in increments of 10, 100, 1000

Part No.	Cross Ref. No.	Positions	1	10	100
397790CE	640599-2	2	..... *	\$.117	\$.105
397802CE	640599-3	3	..... *	.10	.09
397811CE	640599-4	4	..... .21	.158	.136
397829CE	640599-5	5	..... .41	.308	.232
397837CE	640599-6	6	..... .20	.188	.187

- Yellow • AWG: 20

Part No.	Cross Ref. No.	Positions	1	10	100
397888CE	640600-2	2	..... \$ .40	\$.39	\$.38
397896CE	640600-3	3	..... *	.149	.138
397909CE	640600-4	4	..... *	.16	.155
397917CE	640600-5	5	..... .29	.269	.256
397925CE	640600-6	6	..... .21	.199	.196

With Locking Ramp and Polarizing Tabs (Fig. 4)

- Orange • AWG: 18

Part No.	Cross Ref. No.	Positions	1	10	100
397976CE	644465-2	2	..... *	\$.087	\$.078
397984CE	644465-3	3	..... *	.10	.09
397992CE	644465-4	4	..... *	.158	.152
398004CE	644465-5	5	..... .29	.216	.194
398012CE	644465-6	6	..... .20	.139	.132

- Yellow • AWG: 20

Part No.	Cross Ref. No.	Positions	1	10	100
398063CE	644466-2	2	..... *	\$.087	\$.078
398071CE	644466-3	3	..... *	.101	.09
398080CE	644466-4	4	..... *	.112	.101
398098CE	644466-5	5	..... .29	.216	.194
398101CE	644466-6	6	..... .20	.139	.134

Strain Relief Covers for Feed-Thru Style

Part No.	Cross Ref. No.	Positions	1	10	100
398602CE	643071-2	2	..... .20	\$.164	\$.148
398611CE	643071-3	3	..... .27	.245	.223
398629CE	643071-4	4	..... .37	.327	.296
398637CE	643071-5	5	..... .49	.45	.432
398645CE	643071-6	6	..... .49	.396	.36

.156" Center Housing Connectors & Crimp Contact

- Mating connectors for Mean Well LPS and LPP series power supplies (pgs 176-177)
- Current rating: 10A AC/DC
- Voltage rating: 250V AC/DC



Part No.	Description	1	10	100	1000
215950CE	5 pos. housing	..... \$ .35	\$.32	\$.28	\$.26
215976CE	8 pos. housing	..... .39	.35	.32	.28
215968CE	12 pos. housing	..... .49	.44	.39	.35
227416CE	Crimp contact	..... .32	.29	.26	.22

.156" (3.9mm) Center Straight-Friction Lock Headers

- Voltage rating: 250VAC/VDC max.
- Current rating: 7 amps AC/DC
- Contact resistance: 20mΩ
- Temperature range: -25°C to +85°C
- Header material: pin - brass/tin-plated
- Base: nylon 66, UL94V-2



Part No.	Cross Ref. No.	Pins	1	10	100	1000
104791CE	LMH4	4	..... *	\$.11	\$.09	\$.07
104803CE	LMH5	5	..... *	.13	.11	.09
104811CE	LMH6	6	..... *	.15	.12	.10
104846CE	LMH10	1022	.20	.16	.12

Other Manufacturers — Great Deals

235491CE	8673-12-5	12	... \$.35	\$.32	\$.25	\$.23
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AMP

.156" (3.96mm) Male Headers

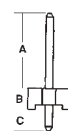
- Voltage and current rating: 600VAC @ 7.0A
- Contact material/plating: copper alloy/tin
- UL94V-0 flammability rating
- .045" square posts
- Insulator material: polyester
- Solder tail material/plating: copper alloy/tin



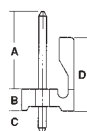
231491CE

231571CE

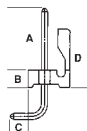
232418CE



Straight Header



Straight Friction Lock



Right Angle Friction Lock

Straight Friction Lock Headers

- Dimensions: (A) .450"; (B) .125"; (C) .125"; (D) .425"

*Prepackaged: order in increments of 10 or 100

Part No.	Product No.	Positions	1	10	100
231546CE	640445-2	2	.....*	\$ .07	\$.06
231554CE	640445-3	3	.....*	.075	.065
231562CE	640445-4	4	.....*	.10	.08
231571CE	640445-5	5	.....*	.14	.10
231589CE	640445-6	6	.....*	.17	.13
231597CE	640445-7	7	.....*	.18	.15
231600CE	640445-8	8	.....*	.23	.17
231626CE	1-640445-0	10	.....	.31	.24

Right Angle Friction Lock Headers

- Dimensions: (A) .450"; (B) .125"; (C) .125"; (D) .425"

Part No.	Product No.	Positions	1	10	100
232362CE	640389-2	2	.....*	\$ .29	\$.26
232371CE	640389-3	3	.....*	.44	.39
232389CE	640389-4	4	.....*	.59	.52
232397CE	640389-5	5	.....*	.74	.65
232400CE	640389-6	6	.....*	.80	.71
232418CE	640389-7	7	.....*	.93	.83
232426CE	640389-8	8	.....*	1.06	.94
232434CE	640389-9	9	.....*	1.19	1.06
232442CE	1-640389-0	10	.....	1.33	1.18

Straight Headers

- Dimensions: (A) .450"; (B) .125"; (C) .125"

Part No.	Product No.	Positions	1	10	100
231458CE	640383-2	2	.....*	\$ .23	\$.20
231466CE	640383-3	3	.....*	.26	.20
231474CE	640383-4	4	.....*	.29	.22
231482CE	640383-5	5	.....*	.37	.27
231491CE	640383-6	6	.....*	.40	.32
231503CE	640383-7	7	.....*	.47	.34
231511CE	640383-8	8	.....*	.55	.39
231520CE	640383-9	9	.....*	.60	.45
231538CE	1-640383-0	10	.....*	.65	.49

AMP

.156" (3.96mm) Female Housing

- Voltage and current rating: 250VAC @ 6.5A maximum
- Material: nylon, unreinforced 94V-0
- Dielectric withstanding voltage: 2kVAC
- Insulation resistance: 1,000MΩ minimum
- Hole diameter: .054" (1.37mm)

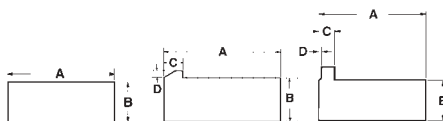


236259CE

236161CE

236347CE

Side View



Without Locking Ramp

With Locking Ramp

With Locking Ramp & Polarizing Tabs

With Locking Ramp

- Dimensions: (A) .660"; (B) .250"; (C) .100"; (D) .0365"

*Prepackaged: order in increments of 10 or 100

Part No.	Product No.	Positions	1	10	100
236144CE	640250-2	2	.....*	\$ .152	\$.134
236152CE	640250-3	3	.....*	.086	.076
236161CE	640250-4	4	.....*	.162	.15
236179CE	640250-5	5	.....*	.20	.138
236187CE	640250-6	6	.....*	.21	.15
236195CE	640250-7	7	.....*	.24	.15
236208CE	640250-8	8	.....*	.22	.155
236216CE	640250-9	9	.....*	.45	.419
236224CE	1-640250-0	10	.....*	.51	.466

With Locking Ramp and Polarizing Tabs

- Dimensions: (A) .660"; (B) .250"; (C) .100"; (D) .019" ±.003"

*Prepackaged: order in increments of 10 or 100

Part No.	Product No.	Positions	1	10	100
236321CE	770849-2	2	.....*	\$ .114	\$.105
236339CE	770849-3	3	.....*	.22	.14
236347CE	770849-4	4	.....*	.20	.173
236355CE	770849-5	5	.....*	.171	.154
236363CE	770849-6	6	.....*	.30	.28
236371CE	770849-7	7	.....*	.36	.326
236380CE	770849-8	8	.....*	.39	.365
236398CE	770849-9	9	.....*	.46	.39
236401CE	1-770849-0	10	.....*	.31	.307

Without Locking Ramp

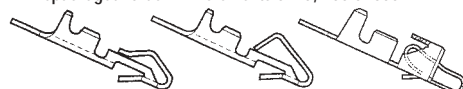
- Dimensions: (A) .660"; (B) .250"

*Prepackaged: order in increments of 10 or 100

Part No.	Product No.	Positions	1	10	100
236232CE	640251-2	2	.....*	\$ .096	\$.095
236241CE	640251-3	3	.....*	.20	.14
236259CE	640251-4	4	.....*	.29	.186
236267CE	640251-5	5	.....*	.114	.106
236275CE	640251-6	6	.....*	.25	.23
236283CE	640251-7	7	.....*	.42	.326
236291CE	640251-8	8	.....*	.45	.373
236304CE	640251-9	9	.....*	.46	.419
236312CE	1-640251-0	10	.....*	.27	.25

AMP .156" Crimp Contacts

- Voltage rating: 250VAC
- Current rating: 10A max.
- Low level resistance: 30mΩ max.
- Dielectric withstanding voltage: 2000VAC/1 min.
- Insulation resistance: 1000MΩ minimum
- Compatible with .045" square or round posts
- Material and finish:
 - *A: brass, 0.012" bright tin plated
 - *B: brass, 0.012" pre-tin plated
 - *C: brass, 0.00030" gold over nickel plated
 - *D: phosphor bronze, 0.012" bright tin plated
 - *E: phosphor bronze, 0.0003" gold over nickel plated
- For use with .156" AMP housings (bottom left)
- Prepackaged: order in increments of 10, 100 or 500



* Fig. 1

(High-Force)

* Fig. 2

(Low-Force)

* Fig. 3

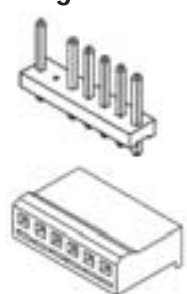
(Hooded - Dual Wipe)

Part No.	Product No.	Desc.*	AWG	10	100	500
248866CE	640706-1	1A	18-24	\$.171	\$.155	\$.145
248874CE	640706-2	1B	18-24	.152	.14	.13
248882CE	640707-1	2A	18-24	.20	.175	.119
248891CE	770258-1	2C	18-24	.39	.35	.32
248903CE	770522-1	3D	18-24	.19	.138	.123
248911CE	770258-2	3E	18-24	.30	.27	.23

SPOX™ (Spring Box Type) .156" (3.96mm) Headers and Housings

Pitch Headers

- Contact resistance: 10mΩ max.
- Insulation resistance: 1000MΩ min.
- Dielectric withstanding voltage: 1500VAC min.
- Brass contact tin plating or brass contact with gold/nickel
- Nylon 6/6 UL-94V-2 housing
- Temp rating: -40°C to 105°C
- Vertical, vertical with lock ramp or right angle
- Also available with second circuit blanked for polarization



NEW
ON THE WEB

Friction Lock & Pitch Friction Lock Headers

- Contact resistance: 10mΩ max.
- Insulation resistance: 1000MΩ min.
- Dielectric withstanding voltage: 1500VAC min.
- Brass contact tin plating or brass contact with gold/nickel
- Nylon 6/6 UL-94V-2 housing
- Temp rating: -40°C to 105°C
- Vertical, vertical with lock ramp or right angle

Female Crimp Housing with Friction Ramp

- PA Polyimide (nylon 66) UL-94V-2
- Temp rating: -40°C to 105°C
- Crimp and mini crimp terminal (pin & receptacle)

These products ship from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

See Complete SPOX .156" Series Offering at
www.Jameco.com/Prod/MolexSPOX156

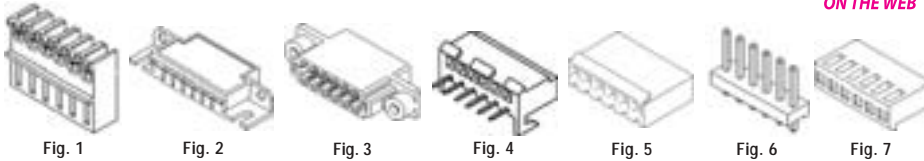
Order Anytime, Day or Night

Our friendly sales department will take your order 24x7x365 by phone, fax, web or email.



KK® Series .156" (3.96mm) Connectors

NEW
ON THE WEB



Center Female Crimp Terminals

- 18-20 AWG to 22-30 AWG
- Phosphor bronze or brass • Tin or gold plating

IDT Female Connectors (Fig. 1)

- Feed thru termination • Nylon UL94V-2
- Right angle wire entry
- Temp range: 0°C to 75°C • Voltage: 250V max.
- Withstanding voltage: 2000VAC
- Contact resistance: 20mΩ

Edge Card Connectors (Fig. 2)

- Single-sided, surface-mount, polarized, without flange
- Nylon UL94V-2 housing • Voltage: 250V
- Tin or gold contact plating
- Withstand voltage: 1500VAC
- Contact resistance: 20mΩ max.
- Insulation resistance: 50,000MΩ min.

Pitch Crimp Edge Card Connectors (Fig. 3)

- With or without mounting flange
- Tin or gold contacts
- Polyester UL94V-0 Housing
- Temp range: 0°C to 75°C
- Contact resistance: 20mΩ
- Insulation resistance: 50,000MΩ
- Withstanding voltage: 1500VAC

PCB Assemblies, PC Tail (Fig. 4)

- Right angle, top entry or bottom entry orientations
- Nylon UL94V-2 housing • Tin over copper plating
- Temp range: 0°C to 75°C
- Voltage: 250V max. • Current: 5A max.
- Withstanding voltage: 1500VAC
- Contact resistance: 6mΩ max.
- Insulation resistance: 50,000MΩ

These products ship from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

See Our Complete KK Series .156" Connector Offering at www.Jameco.com/Prod/MolexKK156



.165" (4.2mm) Mini-Fit Jr. Contacts

- Voltage: 600V • Current: 9A (†12A current rating) • Dielectric withstanding voltage: 1500V
- Contact resistance: 10mΩ max. • Insulation resistance: 1000MΩ min.
- Material: *A: Brass (pre-plated tin over copper)
- *B: Brass or copper (post-plated tin over nickel)
- *C: Brass (post-plated tin over nickel)
- *D: Phosphor bronze (pre-plated gold over nickel)



Male Contacts

*Prepackaged: order in increments of 10, 100 or 1000

Part No.	Product No.	Desc.*	AWG	1	10	100
304661CE	44478-3112†	1B	16	.....	\$ .20	\$.171 \$.152
304688CE	39-00-0224	1D	16	.....	.85	.704 .508
304709CE	39-00-0096	1C	16	.....	.62	.517 .376
304725CE	39-00-0041	1A	18-24	.....	* .056	.047
304741CE	39-00-0220	1D	18-24	....	.76	.704 .389
304792CE	30490-2012	1D	18-24	....	.25	.244 .209
304805CE	39-00-0054	1C	18-24	....	.43	.404 .306
304821CE	30490-1012	1D	18-24	....	.83	.686 .494
304768CE	44478-1112†	1B	22-28	....	.28	.261 .171
304864CE	39-00-0049	1A	22-28	....	.20	.071 .07
304881CE	39-00-0222	1D	22-28	....	.76	.649 .466
304901CE	39-00-0088	1C	22-28	....	.43	.40 .361

- Sold in 4000 piece reel

Part No.	Product No.	Desc.*	AWG	Price
307985CE	39-00-0040	1A	18-24	..... \$108.00

Female Contacts

Part No.	Product No.	Desc.*	AWG	1	10	100
304670CE	44476-3112†	2C	16	.....	\$.32	\$.261 \$.155
304696CE	39-00-0186	2D	16	.....	.85	.70 .51
304717CE	39-00-0168	2C	16	.....	.58	.479 .346
304733CE	39-00-0039	2A	18-24	.....	* .064	.059
304750CE	39-00-0182	2D	18-24	....	.46	.44 .389
304776CE	44476-1112†	2B	18-24	....	.32	.261 .188
304784CE	44485-1212†	2D	18-24	....	.88	.733 .523
304813CE	39-00-0164	2C	18-24	....	.43	.39 .345
304872CE	39-00-0047	2A	22-28	....	.20	.14 .096
304899CE	39-00-0184	2D	22-28	....	.45	.435 .428
304910CE	39-00-0166	2C	22-28	....	.58	.478 .323

- Sold in 4000 piece reel

Part No.	Product No.	Desc.*	AWG	Price
307993CE	39-00-0038	2A	18-24	..... \$140.00

Making Great Connectors Even Better!

Do you know how to make these premium-quality connectors even better? Too often, prototypers use pliers or an incorrect crimper to fasten wire to pin. When the plier tips are too wide, pin shapes become distorted. Even a slight distortion can prevent the pin from seating in the connector properly, which leads to poor connections. An improper crimper can either under-crimp, leading to future wire separation; or over-crimp, leading to fatigued pins that eventually break apart.

Be sure you use the right crimper for the job. For instance, be sure to use P/N 99442CE on page 258 for the crimp pins on this page. Then you can be assured the quality of your work will be as great as the quality of the connectors.



Practical Practices
Money Saving Tips for the Engineer



0.165" (4.2mm) Connectors Molex Mini-Fit Jr. Value Equivalents

- Low profile design to accommodate height constraints
- Fully isolated terminals to protect contacts from damage
- Contact resistance: 10mΩ
- Voltage: 600V

- UL rating: 94V-2
- Positive locking housings
- Temp.: -40°C to +150°C

- Pitch: 0.165" (4.2mm)
- Current: up to 9A
- Housing: 6/6 Nylon

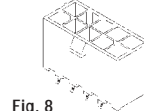
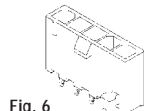


Fig. 1

Fig. 2

5557 Series Connector Equivalents

Receptacle Single Row

Part No.	Cross Ref. No.	Fig.	Positions	1	10	100
364584CE	39-01-4030	1	3 ...	\$.20	\$.147	\$.124
364592CE	39-01-4040	1	4 .....	.33	.267	.226
364605CE	39-01-4050	1	5 .....	.33	.265	.223

Receptacle Dual Row

Part No.	Cross Ref. No.	Fig.	Positions	1	10	100
364736CE	39-01-2020	2	2 ...	\$.27	\$.24	\$.162
364744CE	39-01-2040	2	4 .....	.20	.176	.119
364752CE	39-01-2060	2	6 .....	.38	.34	.23
364761CE	39-01-2080	2	8 .....	.43	.371	.258
364779CE	39-01-2100	2	10 .....	.42	.374	.252
364787CE	39-01-2120	2	12 .....	.47	.421	.283
364795CE	39-01-2140	2	14 .....	.57	.51	.343
364808CE	39-01-2160	2	16 .....	.59	.522	.351
364824CE	39-01-2200	2	20 .....	.75	.666	.448
364832CE	39-01-2220	2	22 .....	.99	.912	.611
364841CE	39-01-2240	2	24 .....	.84	.744	.502

5559 Series Connector Equivalents

Plugs - Panel Mount w/ Ears, Single Row

Part No.	Cross Ref. No.	Fig.	Positions	1	10	100
364613CE	39-01-4032	3	3 ...	\$.24	\$.195	\$.165
364621CE	39-01-4052	3	5 .....	.32	.258	.218

Plugs - Panel Mount w/ Ears, Dual Row

Part No.	Cross Ref. No.	Fig.	Positions	1	10	100
364859CE	39-01-2021	6	2 ...	\$.27	\$.242	\$.162
364867CE	39-01-2041	6	4 .....	.39	.363	.24
364875CE	39-01-2061	6	6 .....	.43	.371	.248
364883CE	39-01-2081	6	8 .....	.35	.312	.21
364891CE	39-01-2101	6	10 .....	.42	.374	.252
364904CE	39-01-2121	6	12 .....	.43	.382	.257
364912CE	39-01-2141	6	14 .....	.59	.435	.336
364921CE	39-01-2161	6	16 .....	.62	.506	.44

Plugs - Free Hanging w/o Ears, Single Row

Part No.	Cross Ref. No.	Fig.	Positions	1	10	100
364630CE	39-01-4036	4	3 ...	\$.31	\$.254	\$.214
364648CE	39-01-4046	4	4 .....	.24	.196	.166
364656CE	39-01-4056	4	5 .....	.27	.22	.186

5566 Series PCB Header Equivalents

Vertical Single Row w/ Pegs & Drain Holes - Tin

Part No.	Cross Ref. No.	Fig.	Positions	1	10	100
364672CE	39-30-2035	5	3 ...	\$.75	\$.466	\$.378
364681CE	39-30-2045	5	4 .....	.89	.55	.445
364699CE	39-30-2056	5	5 ...	1.25	.751	.607

For crimp tool
see page 118.



5566 Series PCB Header Equivalents (Con't)

Vertical Dual Row without Pegs without Drain Holes - Tin

Part No.	Cross Ref. No.	Fig.	Positions	1	10	100
364939CE	39-28-1023	8	2 ...	\$.60	\$.516	\$.36
364947CE	39-28-1043	8	4 .....	.77	.672	.464
364955CE	39-28-1063	8	6 ...	1.05	.877	.632
364963CE	39-28-1083	8	8 ...	1.19	.99	.737
364971CE	39-28-1103	8	10 ...	1.39	1.24	.818
364980CE	39-28-1123	8	12 ...	1.49	1.29	.915
364998CE	39-28-1143	8	14 ...	1.89	1.71	1.22
365000CE	39-28-1163	8	16 ...	2.09	1.89	1.35
365018CE	39-28-1183	8	18 ...	2.39	2.15	1.46
365026CE	39-28-1203	8	20 ...	2.85	2.48	1.72
365034CE	39-28-1223	8	22 ...	1.09	.96	.923
365042CE	39-28-1243	8	24 ...	3.19	2.66	1.92

Vertical Dual Row without Pegs without Drain Holes - Gold

Part No.	Cross Ref. No.	Fig.	Positions	1	10	100
365051CE	39-29-0023	8	2 ...	\$.74	\$.577	\$.496
365069CE	39-29-0043	8	4 ...	1.19	1.15	.904
365077CE	39-29-0063	8	6 ...	1.39	1.19	.944
365085CE	39-29-0103	8	8 ...	2.19	2.15	2.14
365093CE	39-29-0123	8	10 ...	2.19	1.84	1.49
365106CE	39-29-0143	8	12 ...	3.19	3.15	3.14
365114CE	39-29-0163	8	14 ...	3.75	3.71	3.69
365122CE	39-29-0163	8	16 ...	4.19	4.15	4.09
365131CE	39-29-0183	8	18 ...	4.69	4.65	4.63
365149CE	39-29-0203	8	20 ...	5.29	5.25	5.19
365157CE	39-29-0223	8	22 ...	5.85	5.83	5.82
365165CE	39-29-0243	8	24 ...	6.29	6.23	6.12

5569 Series PCB Header Equivalents

Right Angle Single Row w/ Pegs - Tin

Part No.	Cross Ref. No.	Fig.	Positions	1	10	100
364701CE	39-30-3035	7	3 ...	\$.85	\$.502	\$.406
364710CE	39-30-3045	7	4 .....	.79	.476	.386
364728CE	39-30-3055	7	5 .....	.99	.614	.496

Right Angle Dual Row w/ Pegs - Tin

Part No.	Cross Ref. No.	Fig.	Positions	1	10	100
365173CE	39-30-1020	9	2 ...	\$.53	\$.476	\$.322
365181CE	39-30-1040	9	4 .....	.55	.419	.284
365190CE	39-30-1060	9	6 .....	.69	.521	.352
365202CE	39-30-1080	9	8 .....	.72	.616	.416
365211CE	39-30-1100	9	10 .....	.99	.758	.512
365229CE	39-30-1120	9	12 ...	1.19	.90	.608
365237CE	39-30-1140	9	14 ...	1.15	.99	.689
365245CE	39-30-1160	9	16 ...	1.55	1.19	.81
365253CE	39-30-1180	9	18 ...	1.39	1.16	.948
365261CE	39-30-1200	9	20 ...	1.49	1.28	1.14
365270CE	39-30-1220	9	22 ...	2.05	1.98	1.90
365288CE	39-30-1240	9	24 ...	2.19	1.99	1.91

5569 Series PCB Header Equivalents (Con't)

Right Angle Dual Row w/ Pegs - Gold

Part No.	Cross Ref. No.	Fig.	Positions	1	10	100
365325CE	39-30-1021	9	2 ...	\$1.39	\$1.25	\$.84
365333CE	39-30-1041	9	4 .....	.95	.94	.928
365341CE	39-30-1061	9	6 ...	1.09	.995	.952
365350CE	39-30-1081	9	8 ...	1.49	1.45	1.43
365368CE	39-30-1101	9	10 ...	1.69	1.62	1.54
365376CE	39-30-1121	9	12 ...	2.05	1.79	1.72
365384CE	39-30-1141	9	14 ...	2.45	2.41	2.39
365392CE	39-30-1161	9	16 ...	2.85	2.79	2.76
365405CE	39-30-1181	9	18 ...	3.25	2.96	2.90
365413CE	39-30-1201	9	20 ...	3.49	3.29	3.09
365421CE	39-30-1221	9	22 ...	4.25	4.22	4.15
365430CE	39-30-1241	9	24 ...	4.75	4.73	4.68

Right Angle - Dual Row w/ Flanges - Tin

Part No.	Cross Ref. No.	Fig.	Positions	1	10	100
365448CE	39-29-1028	10	2 ...	\$.39	\$.348	\$.232
365456CE	39-29-1048	10	4 .....	.49	.435	.296
365464CE	39-29-1068	10	6 .....	.62	.569	.384
365472CE	39-29-1088	10	8 .....	.76	.672	.456
365481CE	39-29-1108	10	10 ...	.91	.837	.568
365499CE	39-29-1128	10	12 ...	1.05	.94	.64
365501CE	39-29-1148	10	14 ...	1.15	.97	.80
365510CE	39-29-1168	10	16 ...	1.49	1.35	.91
365528CE	39-29-1188	10	18 ...	1.69	1.68	1.67
365536CE	39-29-1208	10	20 ...	1.79	1.51	1.22
365544CE	39-29-1228	10	22 ...	3.15	2.80	1.92
365552CE	39-29-1248	10	24 ...	3.89	3.30	2.34

Right Angle - Dual Row w/ Flanges - Gold

Part No.	Cross Ref. No.	Fig.	Positions	1	10	100
365561CE	39-39-5023	10	2 ...	\$1.35	\$1.19	\$.808
365579CE	39-39-5043	10	4 ...	1.55	1.37	.928
365587CE	39-39-5063	10	6 ...	2.25	1.98	1.36
365595CE	39-39-5083	10	8 ...	2.55	2.28	1.54
365608CE	39-39-5103	10	10 ...	1.89	1.79	1.76
365616CE	39-39-5123	10	12 ...	3.39	3.04	2.06
365624CE	39-39-5143	10	14 ...	3.89	3.71	2.56
365632CE	39-39-5163	10	16 ...	4.85	4.34	2.94
365641CE	39-39-5183	10	18 ...	3.45	3.39	3.06
365659CE	39-39-5203	10	20 ...	3.95	3.89	3.88
365667CE	39-39-5223	10	22 ...	4.45	4.42	4.36
365675CE	39-39-5243	10	24 ...	4.99	4.97	4.95

Hand Crimp Tools for Mini-Fit Jr.



308030CE: Cuts & strips 14-24 AWG wires
227491CE: Cuts & strips 18-30 AWG wires

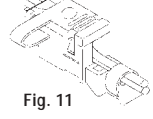
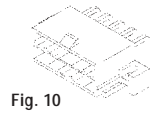
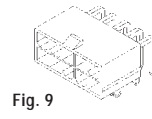
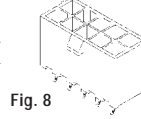
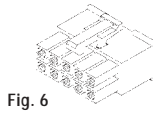
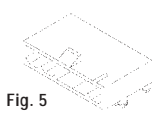
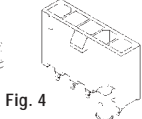
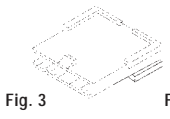
Part No.	Product No.	Length	Color	1	5
308030CE	W-HT-1919	8.3"L	Red	\$14.99	\$13.99
227491CE	W-HT-1921	8.3"L	Yellow ..	14.99	13.99



.165" (4.2mm) Mini-Fit Jr. Connectors

- Use with strain relief or overmold applications
- UL/CSA/TUV approved
- Uses standard Mini-Fit series terminals

- Positive housing lock for secure mating retention
- Fully isolated terminals to protect contacts from damage
- Housing: 6/6 nylon, UL 94V-2 rated



Single Row Receptacles and Plugs

Receptacles		* Please order in increments of 10 or 100				
Part No.	Product No.	Fig.	Positions	1	10	100
303765CE	39-01-4030	1	3	\$.43	\$.319	\$.203
303773CE	39-01-4040	1	4	\$.40	\$.318	\$.268
303781CE	39-01-4050	1	5	\$.39	\$.315	\$.265

Panel Mount Receptacle w/ Passive Lock

462424CE	03-04-4052	1	5	\$.30	\$.29	
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Panel Mount Plugs w/ Mounting Ears

303790CE	39-01-4032	2	3	\$.46	\$.414	\$.276
303829CE	39-01-4052	2	5	\$.38	\$.307	\$.258

Panel Mount Plugs w/o Mounting Ears

303802CE	39-01-4036	3	3	\$.37	\$.302	\$.254
303811CE	39-01-4046	3	4	\$.49	\$.404	\$.295
303837CE	39-01-4056	3	5	\$.53	\$.461	\$.329

Single Row Headers

- Voltage: 600V • Contact resistance: 10mΩ max.
- Dielectric withstanding voltage: 1500VAC
- Insulation resistance: 1000MΩ min.
- Contact: brass or phosphor bronze

Vertical Headers w/ Pegs

Part No.	Product No.	Fig.	Positions	1	10	100
304565CE	39-30-1039	4	3	\$.90	\$.537	\$.433
304573CE	39-30-2035	4	3	\$.91	\$.555	\$.448
304581CE	39-30-2045	4	4	1.49	1.24	.884
304590CE	39-30-2056	4	5	1.55	.903	.721

Right Angle Headers w/ Pegs

304602CE	39-30-3035	5	3	1.02	\$.603	\$.482
304611CE	39-30-3045	5	4	1.00	.96	.542
304629CE	39-30-3055	5	5	1.55	1.35	.903

Double Row Receptacles

Part No.	Product No.	Fig.	Positions	1	10	100
303562CE	39-01-2020	6	2	\$.27	\$.215	\$.162
303571CE	39-01-2040	6	4	\$.41	\$.341	\$.232
303589CE	39-01-2060	6	6	\$.40	\$.361	\$.243
303597CE	39-01-2080	6	8	\$.45	\$.406	\$.274
303600CE	39-01-2100	6	10	\$.50	\$.445	\$.299
303618CE	39-01-2120	6	12	\$.56	\$.501	\$.336
303626CE	39-01-2140	6	14	\$.69	\$.612	\$.411
303634CE	39-01-2160	6	16	\$.70	\$.621	\$.417
303642CE	39-01-2180	6	18	\$.81	\$.723	\$.485
303651CE	39-01-2200	6	20	\$.89	\$.792	\$.532
303669CE	39-01-2220	6	22	1.20	1.07	.713
303677CE	39-01-2240	6	24	\$.99	\$.876	\$.589

Double Row Plugs

Panel Mount Plugs w/ Mounting Ears

Part No.	Product No.	Fig.	Positions	1	10	100
303685CE	39-01-2021	7	2	\$.32	\$.264	\$.193
303693CE	39-01-2041	7	4	\$.47	\$.392	\$.267
303706CE	39-01-2061	7	6	\$.51	\$.364	\$.268
303714CE	39-01-2081	7	8	\$.42	\$.371	\$.25
303722CE	39-01-2101	7	10	\$.50	\$.445	\$.299
303731CE	39-01-2121	7	12	\$.51	\$.454	\$.305
303749CE	39-01-2141	7	14	\$.70	\$.517	\$.399
303757CE	39-01-2161	7	16	\$.75	\$.602	\$.523

Double Row Headers

- Voltage: 600V • Contact resistance: 10mΩ max.
- Dielectric withstanding voltage: 1500VAC
- Insulation resistance: 1000MΩ min.
- Contact: brass or phosphor bronze

Vertical Headers w/o Pegs – Tin Plated

Part No.	Product No.	Fig.	Positions	1	10	100
303845CE	39-28-1023	8	2	\$.68	\$.415	\$.344
303853CE	39-28-1043	8	4	\$.89	\$.761	\$.551
303861CE	39-28-1063	8	6	1.19	.95	.658
303870CE	39-28-1083	8	8	1.37	1.19	.827
303888CE	39-28-1103	8	10	1.65	1.45	.96
303896CE	39-28-1123	8	12	1.79	1.27	.888
303909CE	39-28-1143	8	14	2.25	1.98	1.39
303917CE	39-28-1163	8	16	2.49	2.11	1.46
303925CE	39-28-1183	8	18	2.89	2.56	1.71
303933CE	39-28-1203	8	20	3.39	2.95	2.01
303941CE	39-28-1223	8	22	3.15	2.46	1.68
303950CE	39-28-1243	8	24	3.79	3.16	2.25

Vertical Headers w/o Pegs – Gold Plated, 30μ"

303968CE	39-29-0023	8	2	\$.88	\$.686	\$.589
303976CE	39-29-0043	8	4	2.05	1.81	1.07
303984CE	39-29-0063	8	6	3.29	2.85	2.00
303992CE	39-29-0083	8	8	4.45	3.97	2.65
304004CE	39-29-0103	8	10	5.05	4.47	2.99
304012CE	39-29-0123	8	12	5.65	5.22	3.49
304021CE	39-29-0143	8	14	6.85	6.08	4.07
304039CE	39-29-0163	8	16	7.75	6.87	4.59
304047CE	39-29-0183	8	18	8.65	7.68	5.14
304055CE	39-29-0203	8	20	9.15	8.12	5.43
304063CE	39-29-0223	8	22	10.55	9.30	6.22
304071CE	39-29-0243	8	24	11.49	10.58	6.76

Right Angle Headers w/ Pegs – Tin Plated

304080CE	39-30-1020	9	2	\$.64	\$.566	\$.383
304098CE	39-30-1040	9	4	1.02	.907	.604
304101CE	39-30-1060	9	6	1.31	.968	.664
304119CE	39-30-1080	9	8	1.48	1.31	.877
304127CE	39-30-1100	9	10	1.79	1.05	.864
304135CE	39-30-1120	9	12	2.49	2.16	1.47
304143CE	39-30-1140	9	14	2.75	2.38	1.62
304151CE	39-30-1160	9	16	3.05	2.35	1.70
304160CE	39-30-1180	9	18	3.39	3.05	2.05
304178CE	39-30-1200	9	20	3.95	3.49	2.33
304186CE	39-30-1220	9	22	4.45	3.92	2.61
304194CE	39-30-1240	9	24	4.95	4.39	2.92

Strain Reliefs

- Voltage: 600V • Current: 9A
- Contact resistance: 10mΩ max.
- Dielectric withstanding voltage: 1500V
- Insulation resistance: 1000MΩ min.

Part No.	Product No.	Fig.	Positions	1	10	100
304637CE	15-04-0296	11	6	1.04	1.00	\$.95
304645CE	15-04-0343	11	8	1.14	1.08	.979
304653CE	15-04-0345	11	12	1.15	1.10	.998

Molex Mini-Fit Jr. Contacts on page 117.



Fig. 1

Fig. 2

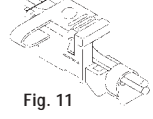
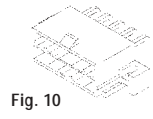
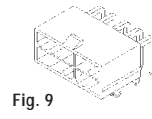


Fig. 9

Fig. 10

Fig. 11

Double Row Headers (Continued)

Right Angle Headers w/ Pegs – Gold Plated, 30μ"

Part No.	Product No.	Fig.	Positions	1	10	100
304207CE	39-30-1021	9	2	1.69	1.50	1.00
304215CE	39-30-1041	9	4	2.15	1.90	1.26
304223CE	39-30-1061	9	6	2.65	2.36	1.57
304231CE	39-30-1081	9	8	3.19	2.85	1.90
304240CE	39-30-1101	9	10	3.85	3.39	2.26
304258CE	39-30-1121	9	12	3.29	3.25	2.65
304266CE	39-30-1141	9	14	5.25	4.67	3.12
304274CE	39-30-1161	9	16	6.05	5.41	3.60
304282CE	39-30-1181	9	18	4.55	4.39	3.44
304291CE	39-30-1201	9	20	7.25	6.47	4.31
304303CE	39-30-1221	9	22	8.65	7.70	5.13
304311CE	39-30-1241	9	24	10.15	9.05	6.03

Right Angle Headers w/ Flange – Tin Plated

304320CE	39-29-1028	10	2	\$.82	\$.685	\$.466
304338CE	39-29-1048	10	4	1.06	.865	.665
304346CE	39-29-1068	10	6	1.35	1.06	.782
304354CE	39-29-1088	10	8	1.65	1.26	.876
304362CE	39-29-1108	10	10	1.85	1.55	1.16
304371CE	39-29-1128	10	12	2.15	1.81	1.36
304389CE	39-29-1148	10	14	2.69	2.23	1.63
304397CE	39-29-1168	10	16	2.69	2.46	1.84
304400CE	39-29-1188	10	18	3.15	2.82	1.88
304418CE	39-29-1208	10	20	3.75	3.32	2.21
304426CE	39-29-1228	10	22	3.85	3.41	2.28
304434CE	39-29-1248	10	24	4.69	3.97	2.78

Right Angle Headers w/ Flange – Gold Plated, 30μ"

304442CE	39-29-5023	10	2	1.65	1.43	\$.96
304451CE	39-29-5043	10	4	1.85	1.64	1.10
304469CE	39-29-5063	10	6	2.75	2.38	1.62
304477CE	39-29-5083	10	8	3.09	2.75	1.83
304485CE	39-29-5103	10	10	4.09	3.65	2.43
304493CE	39-29-5123	10	12	4.15	3.66	2.44
304506CE	39-29-5143	10	14	5.15	4.55	3.04
304514CE	39-29-5163	10	16	5.89	5.22	3.49
304522CE	39-29-5183	10	18	6.75	5.99	4.01
304531CE	39-29-5203	10	20	7.29	6.47	4.32
304549CE	39-29-5223	10	22	8.65	7.68	5.13
304557CE	39-29-5243	10	24	8.65	8.18	5.47



Hand Tools for Mini-Fit Jr.



304928CE: Crimp tool

- Accepts wire range from 14-24 AWG

304936CE: Extraction tool

Part No.	Product No.	1	5
304928CE	63811-1000	\$42.99	\$39.99
304936CE	11-03-0044	19.99	18.99

SPOX™ .197" (5.0mm) & .200" (5.08mm) Pitch Crimp Terminal Housings

- Voltage: 250V • Current: 7.0A
- Dielectric withstanding voltage: 1500VAC min.
- Insulation resistance: 1000MΩ min.
- Contact resistance: 10mΩ max.
- Nylon 6/6 UL94V-2 housing
- Temp. range: -40°C to 105°C

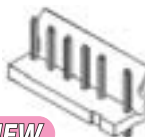


NEW
ON THE WEB

See Our Complete SPOX Series .197" Offering at www.Jameco.com/Prod/MolexSPOX197

SPOX™ .197" (5.0mm) Pitch Vertical Friction Lock Headers

- Voltage: 250V • Current: 7.0A
- Insulation resistance: 1000MΩ min.
- Contact resistance: 10mΩ max.
- Nylon 6/6 UL94V-2 housing
- Temp. range: -40°C to 105°C
- Brass contact, tin plating
- Dielectric withstanding voltage: 1500VAC min.



NEW
ON THE WEB

See Our Complete SPOX Series .197" Offering at www.Jameco.com/Prod/MolexSPOX197

KK Series® .197" (5.0mm) Housing

Centers Crimp Style

- Nylon housing
- Anti-fish-hooking terminal



NEW
ON THE WEB

See Our Complete KK Series .197" Offering at www.Jameco.com/Prod/MolexKK197

.198" (5.03mm) Pitch Pin & Socket Shrouded Headers

Centers Crimp Style

- Voltage: 250V
- Current: 5.0A
- Dielectric withstanding voltage: 1500VAC min.
- Contact resistance: 10mΩ max.
- Polyester UL94V-0
- Brass or phosphor bronze contacts, tin plating
- Temp. range: -40°C to 105°C



NEW
ON THE WEB

See Our Complete .198" Series Offering at www.Jameco.com/Prod/Molex198

.330" (8.38mm) Pitch HCS-125 Pins & Sockets

- Voltage: 600V
- Current: 20A
- Single row (1 to 4 positions)
- With positive locks
- Dielectric withstanding voltage: 1500Vrms min.
- Nylon UL94V-2
- Wire accommodations: 10 to 18 AWG
- Temp rating: -40°C to 105°C



NEW
ON THE WEB

See Our Complete .330" Series Offering at www.Jameco.com/Prod/Molex330



SPOX™ .200" (5.08mm) Headers

Pitch Vertical Friction Lock Headers

- Voltage: 250V
- Current: 7.0A
- Insulation resistance: 1000MΩ min.
- Contact resistance: 10mΩ max.
- Nylon 6/6 UL94V-2 housing
- Temp. range: -40°C to 105°C
- Brass contact, tin plating
- Dielectric withstanding voltage: 1500VAC min.



Pitch Right Angle Friction Lock Headers

- Voltage: 250V
- Current: 7.0A
- Insulation resistance: 1000MΩ min.
- Contact resistance: 10mΩ max.
- Nylon 6/6 UL94V-2 housing
- Temp. range: -40°C to 105°C
- Brass contact, tin plating
- Dielectric withstanding voltage: 1500VAC min.

Pitch Vertical Headers

- Voltage: 250V
- Current: 7.0A
- Insulation resistance: 1000MΩ min.
- Contact resistance: 10mΩ max.
- Nylon 6/6 UL94V-2 housing
- Temp. range: -40°C to 105°C
- Brass contact, tin plating
- Dielectric withstanding voltage: 1500VAC min.



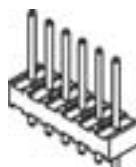
Pitch Right Angle Headers

- Voltage: 250V
- Current: 7.0A
- Insulation resistance: 1000MΩ min.
- Contact resistance: 10mΩ max.
- Nylon 6/6 UL94V-2 housing
- Temp. range: -40°C to 105°C
- Brass contact, tin plating
- Dielectric withstanding voltage: 1500VAC min.

See Complete SPOX .200" Header Series Offering at www.Jameco.com/Prod/MolexSPOX200



KK .200" Series (5.08mm) Headers & Housings



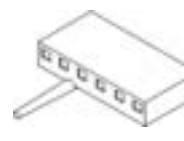
Vertical Header



Pitch Vertical Header



Pitch PC Board Connector



Polarized Pitch Crimp Housing



Pitch Crimp Housing

NEW
ON THE WEB

Vertical & Right Angle Headers

- Through hole
- Voltage: 250V • Current: 7.0A
- Insulation resistance: 500,000MΩ min.
- Contact resistance: 20mΩ max.
- Nylon 6/6 UL94V-2 housing
- Temp. range: 0°C to 75°C
- Brass contact, tin plating
- Dielectric withstanding voltage: 1500VAC min.

Vertical Headers, Square Pin

- Voltage: 250V • Current: 7.0A
- Insulation resistance: 1000MΩ min.
- Contact resistance: 10mΩ max.
- Nylon UL94V-2 housing
- Temp. range: -40°C to 105°C
- Brass contact, tin plating
- Dielectric withstanding voltage: 1000VAC min.

Pitch Vertical Headers, Round/Square Pin

- Voltage: 250V • Current: 7.0A
- Insulation resistance: 500,000MΩ min.
- Contact resistance: 20mΩ max.
- Nylon UL94V-2 housing
- Temp. range: 0°C to 75°C
- Brass contact, tin plating
- Dielectric withstanding voltage: 1500VAC

Pitch PC Board Connectors

- Voltage: 250V • Current: 7.0A
- Insulation resistance: 1,000MΩ min.
- Contact resistance: 10mΩ max.
- Nylon 6/6 UL94V-2 housing
- Temp. range: -40°C to 105°C
- Dielectric withstanding voltage: 1500VAC min
- Brass contacts, tin over copper plating

Polarized Pitch Crimp Terminal Housings

- Molded-in polarized peg
- Voltage: 250V • Current: 7.0A
- Insulation resistance: 500,000MΩ min.
- Contact resistance: 20mΩ max.
- Nylon UL94V-2 housing
- Temp. range: 0°C to 75°C
- Dielectric withstanding voltage: 1500VAC

Pitch Crimp Terminal Housings

- Voltage: 250V • Current: 7.0A
- Insulation resistance: 500,000MΩ min.
- Contact resistance: 20mΩ max.
- Nylon UL94V-2 housing
- Temp. range: -40°C to 105°C
- Dielectric withstanding voltage: 1500VAC

Crimp Terminal Housings

- Temp. range: -40°C to 105°C • Nylon 6/6 UL94V-2

See Complete KK .200" Series Offering at www.Jameco.com/Prod/MolexKK200

Over 99% of Our Products Are In Stock

Place your order by 6PM EST
for same business day shipment.

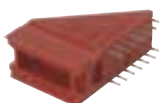


These products ship from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

ARIES Series 800 Vertisockets

With Bifurcated Contacts

- Body material: UL 94-HB glass filled nylon
- Phosphor bronze spring tempered bifurcated contacts
- Contact plating: 100µ" (2.54µm) tin or 10µ" (.254µm) gold
- Contact current: 1.5A
- Operating temperature: 221°F (105°C) for tin; 257°F (125°C) for gold
- Suggested PCB hole size: .044" (1.12mm) dia.
- Gold plated (except 296770CE – tin plated)
- Center pins: .300" (except 291231CE – .200")



291477CE



291485CE

Vertical Mount

Part No.	Product No.	Pins L" x W"	1	10	100
291231CE	10-2810-90	10 1.0 x .29 ..	\$4.99	\$4.19	\$3.39
291477CE	14-810-90R	14 1.4 x .39	2.69	2.39	1.85
296770CE	14-810-90T	14 1.4 x .39	3.65	3.25	2.49

Horizontal Mount

291485CE	14-823-90	14 1.4 x .39 ..	\$4.15	\$3.69	\$2.85
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Horizontal Mounting w/ Collet Contacts

- Body material: UL 94-HB glass filled nylon
- Brass alloy pin body w/ 200µ" (5.07µm) 93/7 tin/lead plating
- Beryllium copper alloy 4-fingered collet contacts
- Operating temperature: 221°F (105°C)
- Contact current: 3A
- Center pins: .300" (7.62mm)
- Suggested PCB hole size: .035" (.89mm) dia.



Part No.	Product No.	Pins L" x W"	1	10	100
295241CE	40-6823-10	40 2.0 x .70	\$12.69	\$11.19	\$8.79

Cinch Jones Plugs and Sockets

Multiple-Density Solder-Eyelet Connectors with Hood and 180° Clamp

- Insulation material: molded mono-block, black phenolic
- Contact material: plug – brass; socket – phosphor bronze
- Contact plating: cadmium
- Hood material: UL 94V-0 rated thermoplastic
- Operating voltage: 250 VAC RMS maximum
- Current rating: 10 amps
- Contact resistance: 16mΩ maximum



248786CE



248823CE

Plugs

Part No.	Product No.	Contacts	1	25
248760CE	P-302-CCT	2	\$2.15	\$1.96
248778CE	P-303-CCT	3	2.39	2.15
248786CE	P-304-CCT	4	3.09	2.49
248794CE	P-306-CCT	6	2.89	2.62

Sockets

Part No.	Product No.	Contacts	1	25
248807CE	S-302-CCT	2	\$2.29	\$2.11
248815CE	S-303-CCT	3	2.69	2.43
248823CE	S-304-CCT	4	2.69	2.46
248831CE	S-306-CCT	6	3.09	2.80

To Find Additional Products In This Series, Visit www.Jameco.com/Prod/CinchJones

ARIES Oscillator Sockets

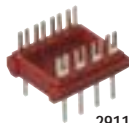
- Body material: blue UL 94V-0 glass filled polyester thermoplastic
- Brass alloy pin, 1/2 hard w/ 200µ" (5.08µm) 93/7 tin/lead plating
- Contact current: 3A
- Center pin spacing: .300" (7.62mm)
- Operating temperature: 221°F (105°C)
- Suggested PCB hole size: .030" (.76mm)



291258CE

Part No.	Prod. No.	Pos.	L" x W"	1	10	100
291282CE	1108800	8	.40 x .40 ..	\$5.56	\$4.47	\$3.38
291258CE	1107741	14	.70 x .40 ....	.56	.47	.38

ARIES DIP Headers and Header Covers



291119CE



291451CE

- Standard cover/body material is red UL 94-HB glass filled nylon
- High temperature cover/body material is black UL 94V-0 4/6 nylon

Series 600 Headers w/ Coined Contacts

- Coined contacts are brass 1/2 hard
- Contact plating: 100µ min., tin
- Contact current rating: 2A
- Operating temperature: 221°F (105°C)
- Fork contacts: accepts up to .025" (.64mm) dia. leads

Part No.	Product No.	Pos.	*W (in.)	1	10	100
291119CE	08-600-10	8	.300 ..	\$1.09	\$.96	\$.79
291311CE	14-600-10	14	.300	1.55	1.37	1.11
291573CE	16-600-10	16	.300	1.69	1.49	1.22
291872CE	18-600-10	18	.300	1.89	1.67	1.35
291944CE	20-600-10	20	.300	2.05	1.79	1.45
291995CE	24-600-10	24	.600	2.49	2.19	1.79
295128CE	28-600-10	28	.600	2.89	2.55	2.06

* Center to center pin width

Series 650 Header Covers

Part No.	Prod. No.	Pos.	*Ht. (in.)	1	10	100
291127CE	08-650-10	8	.125	\$.48	\$.395	\$.335
291338CE	14-650-10	14	.125 .....	.49	.40	.33
291451CE	14-650-20	14	.375 .....	.53	.44	.36
291653CE	16-650-10	16	.125 .....	.52	.43	.36
291661CE	16-650-20	16	.375 .....	.52	.43	.36
291881CE	18-650-10	18	.125 .....	.61	.50	.41
291952CE	20-650-10	20	.125 .....	.60	.50	.41
292007CE	24-650-10	24	.125 .....	.67	.56	.45
292023CE	24-650-20	24	.37579	.68	.51
295136CE	28-650-10	28	.12587	.74	.61

* Max. component height

www.Jameco.com



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EJECT-A-DIP DIP Collet Sockets

With Solder Tail Pins

- Latch and body: UL 94V-0 glass-filled polyester thermoplastic
- Brass alloy pin body w/ 200µ" (5.08µm) 93/7 tin/lead plating
- Beryllium copper alloy 6-fingered collet contact w/ 10µ" (0.25µm) gold plating
- Contact current: 3A
- Insulation resistance: 10,000MΩ @ 500VDC
- Withstanding voltage: 1000VRMS
- Operating temp.: -67°F to 257°F (-55°C to 105°C)
- Center pins: 291493CE/291830CE – .300"; 295216CE/295259CE – .600"
- Suggested PCB hole size: .030" (.76mm) Dia.



291830CE

Vertical Mount

Part No.	Product No.	Pins L" x W"	1	10	100
291493CE	14-C280-10	14 .95 x .40	\$3.09	\$2.49	\$1.85
291830CE	16-C280-10	16 1.05 x .40 ..	3.29	2.65	1.99
295216CE	32-C182-10	32 1.89 x .70 ..	5.55	4.49	3.85
295259CE	40-C182-10	40 2.29 x .70 ..	7.05	5.69	4.89

ARIES SOIC/SOJ to DIP Adapters

- Board material: .062" thick FR-4 with 1 oz. copper traces on both sides
- Brass alloy pins 1/2 hard with 200µ" (5.08µm) minimum tin plating
- Operating temperature: 221°F (105°C)
- Suggested PCB hole size: .028" (.71mm) Dia.

Series 35000X

- Center pins: .300" (7.62mm)
- SOIC package (except 291928CE – SOJ)



291928CE

Part No.	Product No.	Pins L" x W"	1	10	100
291207CE	08-350000-10	8 4.00 x .460	\$6.59	\$5.59	\$4.50
291291CE	14-350000-10	14 .700 x .450 ..	6.55	5.55	4.62
291514CE	16-350000-10	16 .800 x .450 ..	6.55	5.59	4.65
291864CE	18-350000-10	18 .900 x .450 ..	6.55	5.55	4.40
291910CE	20-350000-10	20 1.0 x .450	6.55	5.55	4.59
291928CE	20-350001-10	20 1.0 x .420	6.05	5.99	5.35
291979CE	24-350000-10	24 1.2 x .450	4.45	4.33	4.23
292074CE	28-350000-10	28 1.4 x .400	6.05	5.23	5.00

Series 45000X

- Center pins: .400" (10.16mm)
- SOJ package



Part No.	Product No.	Pins L" x W"	1	10	100
295179CE	32-450001-10	32 1.6 x .530	\$9.09	\$8.99	\$8.89

Series 65000X

- Center pins: .600" (15.24mm)
- SOIC package (except 295187CE – SOJ)



292040CE

Part No.	Product No.	Pins L" x W"	1	10	100
295187CE	32-650000-10	32 1.6 x .700	\$10.35	\$10.25	\$10.15
292040CE	24-650000-10	24 1.2 x .700	9.19	8.55	7.09
295144CE	28-650000-10	28 1.4 x .700	10.35	10.25	10.15

ARIES Series 516 ZIF Sockets

- Body, handle, and cam are 94V-0 glass-filled polyester thermoplastic
- Copper beryllium pins w/ 50µ" (1.27µm) tin plating
- Contact current: 1A
- Operating temperature: 221°F (105°C)
- Center pins: .600" (15.24mm)
- Suggested PCB hole size: .035" (.89mm) Dia.



295110CE

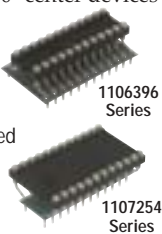
Part No.	Product No.	Pins L" x W"	1	10	100
295110CE	28-516-10	28 1.2 x .785	\$8.99	\$8.19	\$7.75
295224CE	40-516-10	40 2.0 x .780	11.99	10.79	10.19



Row-to-Row DIP Adapter Socket

These sockets allow the use of .300" (7.62mm) center devices when the PCB is drilled on .600" (15.24mm) centers and vice versa, giving the flexibility of using .600" or .300" center devices in the same application.

- Socket body: UL 94-HB glass-filled nylon
- Brass alloy pin body w/ 200µ" (1.27µm) 93/7 tin/lead plating
- Beryllium copper alloy 4-fingered collet contact w/ 30µ" (0.76µm) gold plating
- Contact current: 3A
- Operating temp.: 221°F (105°C)
- Suggested PCB hole size: .035" (.89mm) dia.



Series 1106396 – .300" to .600" adapter

Part No.	Product No.	Pins	1	10	100
296737CE	1106396-24	24	\$9.69	\$7.39	\$6.79
296745CE	1106396-28	28	10.89	8.29	7.55

Series 1107254 – .600" to .300" adapter

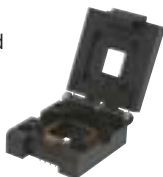
Part No.	Product No.	Pins	1	10	100
296753CE	1107254-24	24	\$9.69	\$7.39	\$6.79
296761CE	1107254-28	28	10.89	8.29	7.55



PLCC Test & Burn-In Zero Insertion Socket

Series 536

- Black body UL 94V-0 glass-filled polyphenylene sulfide
- Beryllium copper alloy contacts w/ 12µ" (.30µm) gold plating
- Contact current: 1A
- Contact resistance: 30mΩ max. (initial)
- Insulation resistance: 1000MΩ min.
- Dielectric strength: 700VAC cont. for 1 minute
- Self inductance: 8.9nH at 10MHz
- Operating temp.: -67°F to 338°F (-55°C to 170°C)
- Size: 1.772"L x 1.339"W



Part No.	Product No.	Pins	1	10	100
295267CE	44-536-11	44	\$60.49	\$60.39	\$60.29



Series 526 Low Profile ZIF Socket

- Body: UL 94V-0 glass-filled polyester thermoplastic
- Beryllium copper alloy spring tempered contacts w/ 200µ" (5.08µm) tin plating
- Zinc alloy cam
- Operating temp.: -67°F to 221°F (-55°C to 105°C)
- Contact current: 2A
- Contact resistance: 10mΩ max.
- Breakdown voltage: 1000VAC min.
- Center pins: .600" (15.24mm)
- Suggested PCB hole size: .035" (0.89mm) Dia.



Quantity SAVE

Part No.	Product No.	Pins	L" x W"	1	10	100
296788CE	24-526-10	24	1.45 x .75	\$5.65	\$5.19	\$4.39
102744CE	28-526-10	28	1.64 x .75	5.49	4.99	4.49
102752CE	40-526-10	40	2.24 x .75	7.35	6.25	4.69

Commercial Customers

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High Temp. Universal Zero Insertion DIP Test

Series X55X

- Accepts devices on .300" to .600" (7.62mm to 15.24mm) centers
- -10: 100µ" tin over 50µ nickel
- -11: 10µ" gold over 50µ nickel
- Operating temperature:
 - 10: 221°F (105°C) – tin plating
 - 11: 302°F (150°C) – gold plating
- Socket body: UL 94V-0 glass-filled PPS
- Beryllium copper contact plating
- Stainless steel handle • Contact current: 1A
- Insulation resistance: 1000MΩ
- Dielectric withstanding voltage: 1000VAC
- Operating temperature: 482°F (250°C)
- Center pins: .600" (15.24mm)



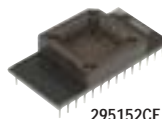
Part No.	Product No.	Pins	L" x W"	1	10	100
292058CE	26-6554-11	26	1.3 x 0.9	\$10.95	\$9.59	\$9.55
295161CE	28-6554-11	28	1.4 x 0.9	11.85	10.39	10.25
295208CE	32-6554-11	32	1.6 x 0.9	13.15	11.49	11.39
295232CE	40-6554-11	40	2.0 x 0.9	15.69	13.79	13.69
295291CE	48-6554-11	48	2.4 x 0.9	19.39	16.19	16.09
103991CE	24-6554-10	24	1.8 x 0.9	7.49	6.79	5.99
104002CE	28-6554-10	28	2.0 x 0.9	8.45	7.39	7.15
104011CE	32-6554-10	32	2.1 x 0.9	9.95	8.49	8.29
104029CE	40-6554-10	40	2.5 x 0.9	11.25	9.80	9.45



PLCC-to-DIP Adapter with Socket

Series 653000

- Converts PLCC packaged ICs to DIP footprints
- Adapter body: FR-4; .062" (1.58mm) thick with 1 oz. minimum copper traces
- Brass alloy solder tail pins w/ 200µ" (5.08µm) 93/7 tin/lead • Current rating: 1A
- Operating temperature: 221°F (105°C)
- Center pins: .600" (15.24mm)
- Suggested PCB hole size: .028" (.71mm) Dia.



Part No.	Product No.	Pos.	L" x W"	1	10	100
295152CE	28-653000-10	28	1.4 x .705	\$23.59	\$23.49	\$23.39
295195CE	32-653000-10	32	1.6 x .705	35.65	32.65	27.05



DIP/SOIC to TO Adapter

8-pin DIP socket or 8-pin SOIC footprint on top and a circular 8-pin TO can male footprint at the bottom. ICs now available only in 8-pin DIP or SOIC can be readily mounted on boards having TO thru-hole footprints without having to redesign the board.

- Board thickness: .062"
- Male pin: brass alloy with 200µ" tin plating
- Suggested PCB hole size: .028" Dia.

323272CE: DIP to TO adapter

- Socket body: black UL 94V-0
- Female pin: brass alloy with 10µ" gold plating
- Female pin contact: beryllium copper with 10µ" gold plating
- Accepts leads .015" to .025" Dia.;
- .100" to .125" long • Current rating: 3A
- Dimensions: 0.4"L x 0.4"W x 0.23"H



323272CE

323264CE

323264CE: SOIC to TO adapter

- 1 oz. copper traces on both sides • Size: 0.375"Dia.

Part No.	Product No.	1	10	100
323272CE	1109522	\$8.35	\$7.89	\$7.49
323264CE	1109814	11.09	10.29	9.85



.100" and 2mm Shorting Blocks



22023CE (open) 112432CE (closed) 152670CE (closed)

- Mates to .025" square posts on .100" centers
 - Shorts headers/jumper blocks or color codes strip line plugs
 - Mate with male headers, left
 - Pin material: phosphor bronze
- Open: open on top to allow for a test point
Closed: closed top
- 119263CE: 2mm shorting block (for disk drives)
- Prepackaged: order in increments of 10, 100 or 1000

Part No.	Description	10	100	1000
22023CE	Top open, black (.100") ..	\$.12	\$.09	\$.06
119263CE	Top open, black (2mm) .....	.15	.13	.096
112424CE	Top open, blue (.100") .....	.133	.099	.067
112416CE	Top open, red (.100") .....	.12	.09	.06
19140CE	Top closed, black (.100") ..	.12	.09	.06
112441CE	Top closed, blue (.100") ....	.12	.09	.06
112432CE	Top closed, red (.100") .....	.20	.18	.12
152670CE	Top closed, black (.100") ..	.19	.15	.12



Machine Contact Single- In-Line Female Sockets

- Machine tooled
- Solder tail and wire wrap



Part No.	Description	1	10	100	500
102200CE	Single x 10-pin	\$.25	\$.22	\$.20	\$.18
78641CE	Single x 30-pin .....	.89	.80	.68	.61
175919CE	Single x 36-pin	1.19	1.09	.97	.87
101282CE	Single x 20-pin WW2†	1.49	1.35	1.09	.80
104053CE	Single x 30-pin WW3*	1.95	1.75	1.49	1.35

† Lead length: .435"(2) * Lead length: .575" (3)

Other Manufacturers — Great Deals

192840CE	Single x 11-pin	\$.44	\$.40	\$.32	\$.24
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Machine Contact Dual- In-Line Female Sockets

- 0.100" centers
- Solder tail contact: .114"L
- Pin sleeve: tin
- Contact clip: gold



Part No.	Cross Ref. No.	Pins	1	10	100
212855CE	SA101000	10 ..	\$.29	\$.23	\$.21
212863CE	SA121000	12 ....	.30	.28	.25
212871CE	SA141000	14 ....	.35	.33	.30
212880CE	SA161000	16 .....	.40	.37	.34
212898CE	SA181000	18 .....	.45	.42	.38
184612CE	SA201000	20 ....	.50	.46	.42
212901CE	SA221000	22 ....	.55	.51	.47
212919CE	SA241000	2460	.56	.51
212927CE	SA321000	3280	.74	.68
212935CE	SA481000	48 ..	1.20	1.11	1.01

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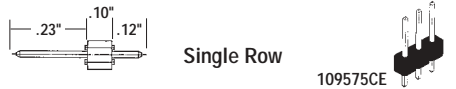
JAMECO ValuePro

.100" Male Headers (Gold)

- Solder to PC boards for instant plug-in access via shorting blocks, right
- Insulator: UL94V-0 polyester
- Snap apart to fit your application
- Contact material: phosphor bronze
- Current rating: 1 amp • Contact area: gold
- Temperature range: -55°C to +120°C
- .025" square posts on a .100" x .100" matrix
- Use with crimp connector housing, pg 124

*Prepackaged: order in increments of 10, 100 or 1000

.100" Straight Male Headers



Part No.	Cross Ref. No.	Contacts	1	10	100	1000
108337CE	SMH02	2	.....*	\$ .16	\$.14	\$.13
109575CE	SMH03	3	.....*	.17	.15	.135
117559CE	SMH04	4	.....*	.17	.15	.135
153699CE	SMH06	6	.....*	.17	.15	.135
153701CE	SMH08	8	.....*	.20	.17	.15
103392CE	SMH10	10	.....*	.18	.14	.10
103376CE	SMH17	17	.....*	.16	.14	.13
103368CE	SMH20	20	.....*	.25	.23	.21
202825CE	SMH22	22	.....*	.25	.233	.21
103350CE	SMH25	25	.....*	.25	.21	.16
103341CE	SMH30	30	.....	.35	.31	.25
68339CE	SMH36	36	.....	.42	.38	.29
160881CE	SMH40	40	.....	.49	.44	.36

JAMECO ValuePro

.100" Straight Male Headers



Part No.	Cross Ref. No.	Contacts	1	10	100	1000
115027CE	923804DS	4	.....*	\$ .10	\$.09	\$.07
115035CE	923806DS	6	.....*	.18	.16	.14
109516CE	923808DS	8	.....*	.18	.16	.14
67820CE	923810DS	10	.....*	.18	.16	.14
203810CE	923812DS	12	.....	.60	.55	.49
118455CE	923814DS	14	.....	.45	.40	.33
109567CE	923816DS	16	.....	.55	.49	.39
203828CE	923818DS	18	.....	.65	.59	.47
53479CE	923820DS	20	.....	.59	.55	.43
203836CE	923822DS	22	.....	.70	.63	.50
203844CE	923824DS	24	.....	.70	.65	.59
203852CE	923828DS	28	.....	.75	.69	.55
203879CE	923830DS	30	.....	.75	.69	.50
203861CE	923832DS	32	.....	.75	.68	.54
53516CE	923834DS	34	.....	.75	.69	.55
203887CE	923836DS	36	.....	.80	.72	.58
203895CE	923838DS	38	.....	.80	.72	.58
53559CE	923850DS	50	.....	.60	.55	.45
68574CE	923860DS	60	.....	.70	.65	.59
103405CE	923872DS	72	.....	.85	.75	.69
117196CE	923880DS	80	.....	.90	.80	.75

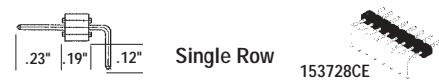
Other Manufacturers — Great Deals

53495CE	923826DS	26	\$.32	\$.29	\$.23	\$.172
53532CE	923840DS	40	.59	.53	.42	.31

30-Day Money-Back Guarantee

If you're not completely satisfied with your purchase, simply return the product within 30 days for a refund or exchange. Details on page 284.

.100" Right Angle Male Headers



Part No.	Cross Ref. No.	Contacts	1	10	100	1000
153728CE	RMH08	8	.....	\$.45	\$.40	\$.30
103270CE	RMH36	36	.....	.75	.64	.58

JAMECO ValuePro

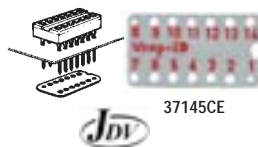
.100" Right Angle Male Headers



Part No.	Cross Ref. No.	Contacts	1	10	100	1000
203908CE	923804DR	4	.....	\$.38	\$.34	\$.31
203916CE	923806DR	6	.....	.49	.44	.30
203924CE	923808DR	8	.....	.49	.44	.35
203932CE	923810DR	10	.....	.59	.53	.48
203941CE	923812DR	12	.....	.59	.53	.42
203959CE	923814DR	14	.....	.65	.58	.47
203967CE	923816DR	16	.....	.65	.59	.53
203975CE	923818DR	18	.....	.65	.58	.47
53575CE	923820DR	20	.....	.65	.59	.53
203983CE	923822DR	22	.....	.65	.58	.47
203991CE	923824DR	24	.....	.65	.58	.47
53583CE	923826DR	26	.....	.69	.62	.51
204003CE	923828DR	28	.....	.69	.62	.50
204011CE	923830DR	30	.....	.75	.68	.54
204020CE	923832DR	32	.....	.75	.68	.54
204038CE	923834DR	34	.....	.75	.68	.54
204046CE	923836DR	36	.....	.75	.68	.50
204054CE	923838DR	38	.....	.75	.68	.54
53604CE	923840DR	40	.....	.85	.75	.57
53612CE	923850DR	50	.....	.85	.75	.57
103413CE	923872DR	72	.....	1.15	.99	.89
139563CE	923880DR	80	.....	1.35	1.19	1.09

Wire Wrap Socket I.D. Markers

- Quick identification of pin numbers
- Slips onto socket before wiring
- Plastic
- Can easily write location, part number or function

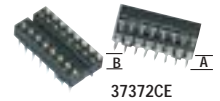


Part No.	Prod. No.	Pins	Width (in.)	1	10	100	500
51561CE	8ID	8	0.3	...	\$.44	\$.35	\$.30
37145CE	14ID	14	0.3	.....	.35	.31	.28
37356CE	16ID	16	0.3	.....	.29	.26	.25
38105CE	18ID	18	0.3	.....	.49	.45	.39
38586CE	20ID	20	0.3	.....	.55	.49	.45
39327CE	24ID	24	0.6	.....	.59	.52	.43
40299CE	28ID	28	0.6	.....	.65	.55	.47
41101CE	40ID	40	0.6	.....	.89	.79	.69

JAMECO ValuePro

Dual Wipe Solder Tail Low-Profile Sockets

- Contact current: 1A
- Contact resistance: less than 5mΩ
- Dielectric withstanding voltage: 300Vrms
- Insulation resistance: greater than 1000MΩ
- Thru-hole lead length: .140" (A)
- Body height: .188" (B)
- Prepackaged: order in increments of 10, 100 or 1000



Part No.	Cross Ref. No.	Pins	Width (in.)	10	100	1000
112192CE	6LPD	6	0.3	...	\$.09	\$.06
112205CE	8LPD	8	0.3	.....	.09	.08
112213CE	14LPD	14	0.3	.....	.10	.075
112221CE	16LPD	16	0.3	.....	.13	.115
112230CE	18LPD	18	0.3	.....	.16	.14
307977CE	22LPD	22	0.3	.....	.14	.12
112281CE	24SLPD	24	0.3	.....	.14	.13
112265CE	24LPD	24	0.6	.....	.158	.129
112299CE	28SLPD	28	0.3	.....	.21	.19
112301CE	32LPD	32	0.6	.....	.26	.23
112310CE	40LPD	40	0.6	.....	.26	.23
167396CE	48LPD	48	0.6	.....	.26	.23

Other Manufacturers — Great Deals

Single & Dual Wipe Low-Profile Sockets

Part No.	Cross Ref. No.	Pins	Width (in.)	10	100	1000
51570CE	8LP	8	0.3	...	\$.063	\$.054
37161CE	14LP	14	0.3	.....	.081	.063
37372CE	16LP	16	0.3	.....	.09	.054
38113CE	18LP	18	0.3	.....	.099	.084
38607CE	20LP	20	0.3	.....	.108	.09
112248CE	20LPD	20	0.3	.....	.153	.13
39132CE	22LP	22	0.4	.....	.108	.095
39378CE	24SLP	24	0.3	.....	.153	.13
39335CE	24LP	24	0.6	.....	.16	.15
112264CE	24LPD	24	0.6	.....	.158	.136
40301CE	28LP	28	0.6	.....	.171	.117
112272CE	28LPD	28	0.6	.....	.214	.128
41110CE	40LP	40	0.6	.....	.171	.153
112326CE	64LPD	64	0.9	.....	.162	.139

† Dual Wipe

When to Mix Apples and Oranges



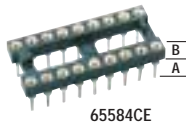
Clearly we know that DIP sockets were devised for DIP semiconductors and SMT semis mount straight onto the PCB. We also know that prototyping SMT devices is much more difficult than DIP because of the package.

So how do you make prototyping SMT-only products much faster and easier? Just use a DIP socket! No, I'm not writing crazy talk... check out the Bellin Dynamic Systems SMT proto boards on page 274. Simply solder your devices to these carrier boards once. The DIP pins on the underside plug into your DIP sockets, so you can plug and exchange them like lego building blocks and then reuse them in future prototyping endeavors.

Practical Practices
 Money Saving Tips for the Engineer

Machine Tooled Solder Tail Low-Profile Sockets

- Contact plating: gold
- Tin-plated leads
- Contact current: 3A
- Multiple contact elements
- Material: beryllium copper or phosphor bronze
- Contact resistance: less than 5mΩ
- Dielectric withstanding voltage: 300Vrms
- Insulation resistance: greater than 1000MΩ
- Insulator: glass-filled polyester or glass-filled polyphenylene sulfide
- Sleeve material: brass
- Thru-hole lead length: .177" (A)
- Body height: .117" (B)



65584CE

A Jameco EXCLUSIVE

Part No.	Cross Ref. No.	Pins	Width (in.)	1	10	100	1000	
167003CE	6MLPT	6	0.3	.....	\$.29	\$.26	\$.18	\$.16
51625CE	8MLP	8	0.3	.....	.25	.22	.19	.17
37196CE	14MLP	14	0.3	.....	.42	.38	.33	.30
37401CE	16MLP	16	0.3	.....	.47	.43	.37	.34
65584CE	18MLP	18	0.3	.....	.55	.49	.43	.39
38623CE	20MLP	20	0.3	.....	.59	.55	.45	.39
39386CE	24SMLP	24	0.3	.....	.65	.59	.47	.35
114411CE	28SMLP	28	0.3	.....	.85	.75	.65	.55
40328CE	28MLP	28	0.6	.....	.83	.75	.65	.59
105380CE	32MLP	32	0.6	.....	.95	.85	.75	.65
41136CE	40MLP	40	0.6	.....	1.19	1.05	.79	.69
42059CE	48MLP	48	0.6	.....	1.29	1.16	1.04	.89
200707CE	64MLP	64	0.9	.....	1.35	1.25	1.15	.99

Other Manufacturers — Great Deals

192209CE	224SMLP	22	0.4	.....	\$.53	\$.48	\$.387	\$.29
39351CE	24MLP	24	0.6	.....	.65	.59	.47	.35
184680CE	284SMLP	28	0.4	.....	.80	.72	.58	.43

PLCC Solder Tail Sockets

- Solder tail allows through-hole board patterns in .100" grid
- Accepts JEDEC type "A" plastic leaded chip (0.05" centers)
- Thru-hole lead length: .125"
- Body height: .375"



71968CE

A Jameco EXCLUSIVE

Cross		EXCLUSIVE				
Part No.	Ref. No.	Pins	1	10	50	100
71263CE	G1P428	28	..... \$ .56	.. \$.44	.. \$.34	.. \$.29
71811CE	G1P432	32	..... .55	.. .48	.. .41	.. .39
71618CE	G1P444	44	..... 1.15	.. .99	.. .81	.. .69
72442CE	G1P452	52	..... .99	.. .79	.. .65	.. .55
71968CE	G1P468	68	..... 1.15	.. .99	.. .89	.. .79
71976CE	G1P484	84	..... 1.29	1.19	.. .93	.. .70

Level 1, 2 & 3 Wire Wrap Sockets

- Contact plating/leads: gold (WW) or tin (TWW); dual wipe
- Material: beryllium copper or phosphor bronze
- Contact current: 1A
- Contact resistance: less than 5mΩ
- Dielectric withstanding voltage: 300Vrms
- Insulation resistance: greater than 1000MΩ
- Insulator: glass-filled polyester or glass-filled polyphenylene sulfide • Sleeve material: brass
- Thru-hole lead length: .315" (L1); .438" (L2); .638" (L3) • Body height: .300" (A)



37233CE

Gold (WW)

Part No.	Prod. No.	Pins	W (in.)	1	10	100	500
37233CE	14WW2	14	0.3 ..	\$1.49	\$1.35	\$1.19	\$1.09
37479CE	16WW2	16	0.3	1.75	1.59	1.43	1.29
196859CE	18WW3	18	0.3	1.55	1.37	1.20	1.09
38674CE	20WW2	20	0.3	2.25	1.99	1.82	1.65
39394CE	24WW2	24	0.6	1.85	1.63	1.43	1.33
40352CE	28WW2	28	0.6	2.19	1.99	1.75	1.60
41187CE	40WW2	40	0.6	3.15	2.80	2.45	2.29

Tin (TWW)

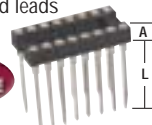
Part No.	Prod. No.	Pins	W (in.)	1	10	100	500	
112660CE	8TWW2	8	0.3	....	\$.86	\$.61	\$.58	\$.55
37217CE	14TWW2	14	0.3	....	1.15	1.03	.93	.84
37436CE	16TWW2	16	0.3	.....	.99	.89	.73	.67
87636CE	18TWW2	18	0.3	....	1.09	.98	.89	.88
75379CE	20TWW2	20	0.3	....	1.69	1.52	1.35	1.23
75416CE	24TWW2	24	0.6	....	1.49	1.35	1.09	.79
75424CE	28TWW2	28	0.6	....	1.89	1.63	1.36	1.22
41179CE	40TWW2	40	0.6	....	2.49	2.15	1.79	1.59

Other Manufacturers — Great Deals

196832CE	14WW1	14	0.3	.....	\$1.05	\$.94	\$.76	\$.57
196841CE	14TWW3	14	0.3	.....	.82	.74	.59	.44

Level 3 Machine Tooled Wire Wrap Sockets

- Contact plating: gold • Tin-plated leads
- Contact resistance: <5mΩ
- Dielectric withstanding voltage: 300Vrms
- Material: beryllium copper or phosphor bronze
- Insulation resistance: greater than 1000MΩ
- Insulator: glass-filled polyester or glass-filled polyphenylene sulfide
- Sleeve material: brass • Body height: .115" (A)
- Thru-hole lead length: .365" (L2); .515" (L3)



37410CE

Blue Part No. = Limited Quantity Available

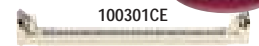
Part No.	Cross	Pins	Width	1	10	100	500
	Ref. No.		(in.)				
94473CE	8MSWW3	8	0.3 .. \$.53	\$.46	\$.38	\$.34	
62050CE	14MSWW3	14	0.3 .... .93	.80	.67	.60	
37410CE	16MSWW3	16	0.3 .. 1.09	.93	.78	.69	
94481CE	18MSWW3	18	0.3 .. 1.09	.93	.78	.74	
38631CE	20MSWW3	20	0.3 .. 1.33	1.14	.95	.86	
185324CE	22MSWW3	22	0.3 .. 1.39	1.25	1.06	.97	
105371CE	24SMSWW3	24	0.3 .. 1.55	1.32	1.11	.99	
94490CE	24MSWW3	24	0.6 .. 1.55	1.31	1.11	1.03	
200715CE	283MSWW3	28	0.3 .. 1.69	1.43	1.19	1.07	
40336CE	28MSWW3	28	0.6 .. 1.69	1.43	1.19	1.07	
117057CE	32MSWW3	32	0.6 .. 2.19	1.99	1.79	1.49	
94502CE	40MSWW3	40	0.6 .. 2.65	2.28	1.90	1.71	
200723CE	48MSWW3	48	0.6 .. 2.99	2.69	2.39	2.15	
200731CE	64MSWW3	64	0.9 .. 2.59	2.37	2.15	1.96	

Other Manufacturers — Great Deals

192831CE	224MSWW3	22	0.4	.....	\$.54	\$.49	\$.45	\$.40
313656CE	24MSWW3	24	0.6	.....	1.19	1.05	.88	.79

SIMM Sockets

- Locking tabs
- Tinned contacts
- Memory module sockets • Keyed mounting posts



Part No.	Description	1	10	100	500
100301CE	Single x 30-pin, vert.	\$.59	\$.53	\$.42	\$.32

Other Manufacturers — Great Deals

72531CE	Dual x 30-pin, vert.	\$.20	\$.099	\$.09	\$.082
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PLCC Surface Mount Sockets

- Current: 1A
- Dielectric strength: 600VAC for 1 minute
- Insulator resistance: 5000MΩ minimum
- Temperature surface mount: -55°C / +170°C

152688CE

Part No.	Cross Ref. No.	Pins	1	10	50	100
152688CE	PLCC44D	44	\$.75	\$.68	\$.54	\$.40
307951CE	850-68-99ST	6886	.78	.69	.66

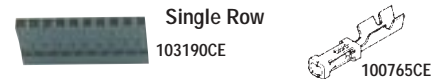
Other Manufacturers — Great Deals

152696CE	PLCC68D	68	\$.34	\$.31	\$.28	\$.26
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.100" Non-Polarized Connector Housings & Crimp Pins

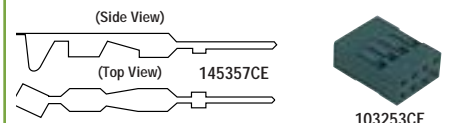
- Mates with .025" square post on pattern of .100" centers (male headers, see pg 123)
- Current rating: 1A • Pin material: brass/tin plated
- Pin wire gauge: 26-22 AWG • Plastic
- Temperature rating: -55°C to +105°C
- Use 159265CE pin crimper, pg 258 and 100765CE below

* Prepackaged: order in increments of 10, 100 or 1000



Cross						
Part No.	Ref. No.	Contacts	1	10	100	1000
100811CE	SCH2	2 *	\$.23	\$.21	\$.17	
157382CE	SCH3	3 *	.24	.22	.18	
100802CE	SCH4	4 *	.25	.23	.19	
163686CE	SCH5	5 30	.27	.25	.22	
103211CE	SCH6	6 34	.31	.27	.21	
103202CE	SCH8	8 39	.35	.29	.25	
103190CE	SCH10	10 42	.39	.36	.31	
103181CE	SCH20	20 49	.45	.39	.35	
103157CE	SCH36	36 49	.45	.39	.35	
100765CE	FCH1	Female pin *	.14	.11	.07	
145357CE	MCH1	Male pin *	.15	.135	.12	

Double Row



Part No.	Cross Ref. No.	Contacts	1	10	100	1000
103253CE	DCH8	8	\$.59	\$.53	\$.45	\$.39
157420CE	DCH10	10 .....	.69	.62	.55	.49
157438CE	DCH14	14 .....	.73	.71	.69	.59
103237CE	DCH16	16 .....	.79	.71	.64	.58
103229CE	DCH20	20 .....	.99	.89	.79	.69
157462CE	DCH40	40	1.09	.99	.89	.75
157471CE	DCH50	50 .....	.65	.59	.47	.35
100765CE	FCH1	Female pin	*	.14	.11	.07
145357CE	MCH1	Male pin	.....	* .15	.135	.12

Save Big! Special Values!

Sale Priced Items = Yellow
Exceptional Quantity Discounts = Green

USB-A & B Connectors and Pins

1.0 and 2.0



174060CE: USB-A & B (2.0) Male Connector

- 3-part housing: tin plate over brass and glass fiber
- 4-pins (P/N 159724CC, see web) required per USB connector

161023CE/230957CE: USB-A & B (1.0 & 2.0) Female Connectors

- PC mount right angle with board locks

230965CE: Male Crimp Pin

- Pin for P/N 174060CE (4 required)
- Contact: gold
- Use P/N 159265CE for crimping tool, pg 258

* Prepackaged: order in increments of 10, 100 or 1000

Part No.	Description	1	10	100	1000
161023CE	USB-A 1.0 conn. (F) ...	\$.79	\$.69	\$.62	\$.56
174060CE	USB-B 2.0 conn. (M) ....	.79	.69	.62	.56
230957CE	USB-B 2.0 conn. (F) .....	.99	.85	.55	.42
230965CE	Crimp pin (M) for 2.0	*	.125	.09	.065

Cinch

CARDCON Edge Connector

Commercial .100" DIP Solder

- Female
- PC board edge type
- Tin plating
- Contact material: spring brass
- Contact plating: gold/nickel
- Insulation: polyester
- Patented bifurcated Bellows contacts for added reliability. Ideal for vibration or board irregularities

Commercial .156" Density DIP Solder/Solder Eyelet & Card Extender

- PC board edge type
- Tin plating • Female
- Insulation: polyester
- Contact material: spring brass
- Patented bifurcated Bellows contacts for added reliability. Ideal for vibration or board irregularities

High Reliability .156" Density DIP Solder/Solder Eyelet

- Female
- PC board edge type
- 5µ" gold plating
- Insulation: polyester
- Contact material: phosphor bronze
- Patented bifurcated Bellows contacts for added reliability. Ideal for vibration or board irregularities

These products ship from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

See Complete CARDCON Connector Series Offering at www.Jameco.com/Prod/CinchCardCon

Cinch

Plug Buttons

- Contact material: steel
- Contact plating: nickel
- Provides ventilation

These products ship from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

See Complete Plug Button Offering at www.Jameco.com/Prod/CinchButtons

.100" Low Profile Keyed Shrouded Header & Connector

CD-ROM 4-Pin Headers and Connector



- Voltage rating: 250V AC/DC
- Current rating: 3A AC/DC
- Insulation resistance: 1000MΩ min.
- Connector material: PBT, 30% glass
- Header material: PBT + 30% glass
- Withstanding voltage: 1000V AC/ 1 minute
- Pin material: tin-plated brass
- Recommended crimp tool P/N 99442CE, pg 258

* Prepackaged: order in increments of 10, 100 or 1000

Part No.	Description	1	10	100	1000
152741CE	Straight header	\$.45	\$.39	\$.35	\$.29
152725CE	Right angle header ...	.55	.50	.40	.30
152733CE	Single w/ latch† .....	.43	.37	.22	.16
181673CE	Female pins	*	.11	.08	.06

† P/N 152733CE requires 4 pins (P/N 181673CE)

.100" IDC DIP Flat Cable Plugs

- Mates with standard 14, 16, 20, 24, 26, 28 & 40-pin DIP sockets with 0.1" spacing
- Plastic with gold-plated contacts
- Uses 28 AWG flat ribbon cable, pg 93
- Current rating: 1 amp

Part No.	Cross Ref. No.	Width	Contacts	1	10	100	500
42657CE	609-14	0.3"	14 ..	\$.49	\$.40	\$.35	\$.29
42673CE	609-16	0.3"	16 .....	.55	.45	.35	.30
104096CE	609-20	0.3"	20 .....	.69	.62	.55	.49
42690CE	609-24	0.6"	24 .....	.79	.71	.64	.59
99670CE	609-28	0.6"	28 .....	.89	.80	.72	.59
42711CE	609-40	0.6"	40 ..	1.15	1.05	.95	.85

Card-Edge Connectors

- Fits all PC boards
- .054" to .070" thick

Solder Eyelet .140" Spacing Between Rows

- Contact centers: .156" • With mounting ears

Part No.	Position	Contacts	1	10	100
39116CE	22/44	Gold	\$2.95	\$2.65	\$2.38

Solder Tail .200" Spacing Between Rows

- Contact centers: .100"
- Without mounting ears

Part No.	Position	Contacts	1	10	100
40694CE	31/62	Tin (PC/AT)	\$.93	\$.82	\$.65
42091CE	49/98	Tin (AT) .....	.89	.59	.39

10' Fiber Optic Cable

- 1000µm core jacketed plastic fiber optic cable (10')

Part No.	Product No.	1	10
171272CE	IF-C-E1000	\$6.95	\$6.25

.100" DIP Header Plugs

- Gold-plated leads
- Header plugs: keyed corner to indicate pin 1
- U-shaped pin termination for easy component attachment
- Lead length: .188" • 0.1" spacing between leads

Part No.	Product No.	Width	Pins	1	10	100
104336CE	8HP	0.3"	8	\$.79	\$.67	\$.57
37129CE	14HP	0.3"	14	1.19	.99	.89
37330CE	16HP	0.3"	16	1.35	1.25	1.09
38578CE	20HP	0.3"	20	1.49	1.35	1.19

PANAVISE IDC Bench Press and Cable Cutter

Designed for low to medium volume mass termination of various IDC connectors on flat ribbon cable.



Part No.	Prod. No.	Description	Wt. (lbs.)	1	10
27174CE	M505	Bench press	7.0	\$179.95	\$159.95

M505 Accessories

27182CE	M507	Cable cutter	0.9	\$66.95	\$61.95
27203CE	M510	Base plate	0.5	26.49	23.49

.100" IDC Plug Connectors

Double Row

- .100" x .100" grid
- Plastic
- Shrouded header w/o mounting ears
- Contact: gold-plated phosphor bronze
- Use with IDC socket for connectors, right

Part No.	Cross Ref. No.	Contacts	1	10	100
29188CE	P40	40 ...	\$1.95	\$1.75	\$1.49
29217CE	P50	50	1.95	1.75	1.49

.100" Low-Profile Male Shrouded Headers

- Rating: 1A (max.) @ 250VDC
- Contact resistance: 15mΩ max.
- Features: UL recognized, CSA certified; .025" square post mates with sockets on .100" x .100" grid
- Contact: phosphor bronze, gold plated
- Use with IDC socket connectors, above

Straight Male Headers

Part No.	Description	1	10	100	1000
67811CE	10-pin	\$.39	\$.35	\$.32	\$.28
68179CE	16-pin .....	.44	.40	.35	.32
68291CE	20-pin .....	.49	.47	.39	.23
68371CE	26-pin .....	.54	.42	.35	.21
68582CE	34-pin .....	.79	.65	.46	.31
181104CE	40-pin .....	.75	.60	.45	.315

Other Manufacturers — Great Deals

Right Angle Male Header

Part No.	Description	1	10	100	1000
211182CE	26-pin	\$.22	\$.20	\$.18	\$.17

For Fiber Optic Kits, see page 280.

DIN and Mini DIN Plugs and Receptacles



• Solder barrels include strain relief • See pg 93 for cable

Part No.	Pins	Type	1	10	100
142279CE	4	Mini plug	\$.79	\$.68	\$.53
142261CE	6	Mini plug	.89	.77	.59
177244CE	6	Mini receptacle	.99	.85	.69
111878CE	8	Mini plug	.99	.89	.74
177236CE	8	Mini receptacle	1.09	.93	.69
15878CE	5	DIN plug	.52	.47	.41
180873CE	5	DIN receptacle	.52	.45	.34
15886CE	6	DIN plug	.59	.50	.39
15894CE	8	DIN plug	.65	.56	.43

DIN Female Sockets

• Metal body
 • Panel mount with solder lugs

Part No.	Cross Ref. No.	# of pins	1	10	100	500
	15851CE					
15843CE	DINJ5	5	\$1.29	\$1.15	\$1.05	\$.79
15851CE	DINJ6	6	1.39	1.25	1.15	.99
15860CE	DINJ8	8	1.49	1.35	1.15	1.05

Right Angle DIN Female Sockets

• Set back: 0.5" • PC mount contacts
 140792CE/119474CE: Plastic/metal body
 29399CE: Plastic body

Part No.	Cross Ref. No.	# of pins	1	10	100	500
	29399CE					
140792CE	MDR4S	4 (mini)	\$.69	\$.59	\$.46	\$.34
119474CE	MDR6S	6 (mini)	1.04	.91	.70	.53
29399CE	RD5	5	.59	.53	.40	.36

Other Manufacturers — Great Deals

• Set back: 0.5" • PC mount contacts
 • Plastic/metal body

Part No.	Cross Ref. No.	# of pins	1	10	100	500
	20772CE					
140791CE	MDR4S	4 (mini)	\$.62	\$.56	\$.45	\$.33
20772CE	MDS8100	8 (mini)	.89	.80	.64	.48

PCB Centronics Connectors



• Solder-type contacts
 • Space between rows: .164" • Metal body
 • Space between pins: 0.1" • PC mount

Part No.	Description	1	10	100
72151CE	36-contact fem., rt angle	\$3.55	\$3.19	\$2.87
72080CE	50-contact fem., rt angle	4.95	4.45	3.95

Other Manufacturers — Great Deals

159708CE	36-contact fem., straight...	\$.53	\$.48	\$.44
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IDC Centronics Connector

• Contact material: gold plated phosphor bronze; plastic casing
 • Current rating: 1 amp
 • Temp. rating: -55°C to +105°C
 • Use 73251CE IDC crimping tool, pg 258

Part No.	Cross Ref. No.	Description	1	10	100
13848CE	CEN36M	36-contact male	\$1.75	\$1.55	\$1.39

Cinch Mini DIN Connectors

Single-Ended Cable Assembly with Angle Brackets/
 Less Angle Brackets



NEW
 ON THE WEB

- 6-pin male
- Shield: steel with nickel
- Contact material: phosphor bronze
- Contact plating: nickel 30µ
- Insulation: diallyl phthalate
- Metal shield provides shielding and grounding
- Circular Mini DIN Plugs**
- Plug components for cable termination

These products ship from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

See Complete Cinch Mini DIN Offering at
www.jameco.com/Prod/CinchMiniDIN

.100" (2.5mm) Female Header Receptacles

• Gold plated contacts
 • 0.1" contact center

Part No.	Contacts	Type	1	10	100	500
71159CE	20	Double row	\$1.25	\$1.10	\$.99	\$.85

Vertical Mount (Top Entry)

Part No.	Contacts	Type	1	10	100	500
70754CE	8	Single row	\$.59	\$.53	\$.43	\$.35
200782CE	12	Single row	.79	.59	.45	.42
308591CE	16	Single row	.58	.48	.31	.243
308566CE	20	Single row	.69	.57	.37	.289
70720CE	16	Double row	.89	.79	.72	.65
70826CE	20	Double row	.99	.89	.71	.53
105056CE	30	Double row	1.09	.98	.88	.74
163863CE	34	Double row	1.19	1.05	.92	.79
111704CE	40	Double (Tin)	1.29	1.15	.99	.89

Other Manufacturers — Great Deals

163862CE	34	Double row	\$1.05	\$.94	\$.85	\$.71
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Centronics Parallel Interface Connector

Metal Body and Shell Solder-Type Contacts

- Solder eyelets accept 24 AWG wire, pg 93
- Male cable plugs
- Complete with cable boot, shell and hardware



Part No.	Cross Ref. No.	Contacts	1	10	50
42382CE	57-30360	36	\$1.79	\$1.59	\$1.49

Ribbon Cable Assemblies

- Metal connector
- 300V rating
- 105°C rating
- 28 AWG flat cable
- Tin-plated contacts



Part No.	Description	1	10	100
12407CE	4' DB25 M-F	\$4.49	\$3.95	\$3.59
208581CE	6' DB9 M-F	3.95	3.55	3.19

.100" & 2mm IDC Socket Connectors

- Double Row
- Mates with 2 rows of .025"Sq. or Dia. posts on patterns of .100" centers (male headers, see below)
 - Industry standard IDC socket (plastic)
 - Temperature rating: -55°C to +105°C
 - Use crimp P/N 73251CE, pg 258
- 32563CE • Current rating: 1A

Polarized IDC Socket Connectors

Part No.	Cross Ref. No.	Contacts	1	10	100	1000
32491CE	S10	10	\$.29	\$.25	\$.19	\$.15
153947CE	S14	14	.32	.27	.21	.16
119466CE	S16	16	.35	.29	.22	.17
32521CE	S20	20	.39	.32	.25	.18
32563CE	S26	26	.45	.35	.29	.19
32643CE	S34	34	.49	.39	.35	.25
32678CE	S40	40	.55	.45	.39	.29
100386CE	IDC440*	44 (2mm)	.99	.89	.71	.53
32707CE	S50	50	.65	.55	.45	.35
32758CE	S60	60	.75	.68	.61	.50

*2mm pin spacing

Non-Polarized IDC Socket Connectors

Part No.	Cross Ref. No.	Contacts	1	10	100	1000
138376CE	SN10	10	\$.35	\$.32	\$.28	\$.24
138325CE	SN20	20	.45	.40	.36	.28
138333CE	SN26	26	.39	.35	.32	.24
138341CE	SN34	34	.45	.40	.35	.28
138350CE	SN40	40	.49	.45	.39	.29
138368CE	SN50	50	.65	.59	.467	.35

.100" (2.5mm) Straight Male Headers

- With Standard Latch
- Double Row
- 0.1" contact center
 - Mount vertical
 - Keying slot
 - Use with IDC socket connectors, above

Part No.	Description	1	10	100	500
117663CE	10-pin	\$1.29	\$1.16	\$.99	\$.61
71829CE	20-pin	1.39	1.25	1.13	.95
71933CE	26-pin	1.49	1.25	.99	.89
72215CE	50-pin	1.85	1.65	1.49	1.35

Internal Serial ATA, ATA-133 & Floppy Drive Cables



7-Pin Serial ATA Cable

Part No.	Description	Length	1	10	25
348710CE	Round, red, 90"	19.9"	\$4.69	\$4.11	\$3.91
348736CE	Round, red, 180"	39.4"	5.89	5.21	4.95

40-Pin ATA-133/IDE Cable

348752CE	Dual round, blue	18"	\$4.69	\$4.27	\$4.05
348787CE	Dual round, black	24"	5.45	5.12	4.87

34-Pin Floppy Drive Cable

348795CE	Round, blue	18"	\$6.59	\$6.59	\$5.77
348816CE	Round, blue	24"	7.69	7.21	6.85

Additional Cables on pages 94-96 & 220.

.118"-Pitch ATX Power Connectors for Motherboards & Power Supplies

- Voltage rating: 250V AC/DC • Current rating: 7A AC/DC • Temperature range: -25°C to 85°C
- Insulation resistance: 1000MΩ min. • Withstanding volt.: 1500V/min.

147379CE: ATX male 20-pin edge mount connector

- Material: nylon 66, UL-94V0

147387CE: Housing connector • Material: nylon 66, UL-94V0

147395CE: ATX power terminal pins • Material: tin-plated brass

* Prepackaged: order in increments of 10, 100 or 1000

Part No.	Description	L	W	H	Dia	Use With	1	10	100	1000
147379CE	20-pin male connector	1.7"	0.4"	0.6"	—	—	\$.59	\$.53	\$.48	\$.43
147387CE	20-pin housing connector	1.7"	0.4"	0.8"	—	147395CE	.59	.53	.48	.43
147395CE	Power terminal pin, female	.59"	—	—	.068"	147387CE	*	.12	.11	.10



.098"-Pitch AT Power Connectors for Motherboards & Power Supplies

- Voltage rating: 250V AC/DC • Current rating: 7A AC/DC • Temperature range: -25°C to 85°C
- Insulation resistance: 1000MΩ min. • Withstanding volt.: 1500V/min.

78300CE: AMP60G male 6-pin PCB mount connector

- Material of post: tin-plated brass • Diameter of post: .09"

78326CE: AMP50G female 6-pin housing connector • Material: nylon

78318CE: AMP501T terminal pin • Material: tin-plated brass

* Prepackaged: order in increments of 10, 100 or 1000

Part No.	Description	L	W	H	Dia	Use With	1	10	100	1000
78300CE	6-pin male connector	.93"	.37"	.57"	—	—	\$.45	\$.39	\$.35	\$.31
78326CE	6-pin housing connector	.94"	.25"	.74"	—	78300CE	.35	.31	.28	.25
78318CE	Power terminal pin, female	.69"	—	—	.09"	78326CE	*	.11	.08	.07



PC/XT/AT & PS/2 Keyboard Extension Cables

- Color: beige

114981CE/112045CE:

- 5-pin DIN male-to-female

28548CE/111053CE:

- 6-pin mini DIN female-to-male

Part No.	Description	1	10	100
114981CE	PC/XT/AT 6' non-coiled	\$1.99	\$1.69	\$1.27
112045CE	PC/XT/AT 10' non-coiled ...	3.95	3.36	2.52
28548CE	PS/2 6' non-coiled	4.35	3.89	3.49
111053CE	PS/2 10' non-coiled	5.49	4.99	4.39



AT-to-PS/2 and PS/2-to-AT Keyboard Adapter Cables

28003CE/319783CE:

- Connects AT-type keyboards to PS/2
- 5-pin female DIN to 6-pin male mini DIN

310789CE:

- Connects PS/2 keyboard to AT
- 6-pin female mini DIN to 5-pin male DIN connectors

Part No.	Length	Color	1	10	100
319783CE	4.5"	Black	\$2.45	\$2.19	\$1.99
28003CE	6.5"	Beige	3.95	3.49	3.15
310789CE	7.5"	Beige	3.95	3.49	3.15



Dual PS/2 Adapter

Converts a dual PS/2 female to a single PS/2 male.

- Size: 1.9"L x 1.2"W

Part No.	Description	1	10	100
319791CE	PS/2 adapter	\$2.75	\$2.59	\$2.45



3.5" Disk Drive Power Adapter Cable

- IBM PC/XT and higher compatibles
- Allows connection of standard 3.5" disk drives to power supplies

Part No.	Length	AWG	1	10	100
28396CE	3.5"	22	\$2.49	\$2.25	\$1.95



3.5" & 5.25" Disk Drive Power Splitters

- IBM PC/XT and higher compatibles
- Splits 4-line Molex male into 2 females

Part No.	Drive	AWG	Length	1	10	100
28353CE	5.25"	18	5'	\$2.95	\$2.69	\$2.39
277528CE	5.25"	20	6'	2.85	2.59	2.25
72303CE	3.5"	22	5'	2.75	2.49	2.19



AT/ATX Power Supply Extension Cables

348891CE:

- For use with 12-pin AT power supplies

326490CE/170237CE:

- For use with ATX power supplies
- 20-pin ATX male and female connectors
- Color coded to ATX power supply

Part No.	Length	AWG	1	10	100
348891CE	9.75"	18	\$1.89	\$1.78	\$1.69
326490CE	13"	18	5.35	5.09	4.79
170237CE	15"	18	5.95	5.65	5.35



Power Connectors and Pins

Connector & Housing Specifications:

- Voltage rating: 250VAC (Mate-N-Lock 600VAC)
- Operating temperature: -55°C to +105°C

Crimp Pin Specifications:

- Material: tin plated brass • Current rating: 1.5 amps
- Wire size range: 18-24 AWG
- Use crimp tool P/N 99442CE, pg 258

* Prepackaged: order in increments of 10, 100 or 1000

For 5.25" Disk Drives and Power Supplies

42075CE & 42067CE Connector Housings:

- .200" pitch
- Keyed mating connectors
- External key bar indicates pin 1



• See pg 260 for extraction tools, 131887CE & 131879CE

Part No.	Description	10	100	1000
109145CE	4-pin M vert. PCB mtg	\$.65	\$.59	\$.53
117567CE	4-pin M PCB mounting, horizontal edge mount .....	.85	.72	.65
42075CE	4-pin M housing .....	.12	.11	.10
42067CE	4-pin F housing .....	.20	.15	.13
42729CE	M crimp pin for 42075CE .....	.10	.07	.06
42649CE	F crimp pin for 42067CE .....	.10	.07	.06

For 3.5" Disk Drives and Power Supplies

- .100" pitch



Part No.	Description	10	100	1000
114930CE	4-pin F housing	\$1.19	\$1.17	\$1.15
114921CE	F crimp pin for 114930CE ....	.11	.095	.08
Part No.	Description	1	100	1000
114999CE	4-pin M rt. angle PCB mtg ..	\$.35	\$.31	\$.28

IEEE 1284 Parallel/ Serial High Speed Cables

Compatible with bidirectional communication data flow resulting in speeds up to 10 times faster than conventional applications.

- Double shielded with 28 AWG stranded twisted pair inner conductors
- Molded shells, PVC plastic
- Color: beige (P/N 130067CE/319767CE); black (P/N 161630CE); gray (P/N 223845CE)
- Weight: 0.6 lbs.



Part No.	Description	1	10
130067CE	6' DB25 M-Cent. parallel 36M..	\$11.95	\$10.95
319767CE	6' DB25 M-Cent. parallel 36M	4.95	4.69
223845CE	6' DB25 M-Cent. parallel 36M ...	11.95	10.95
161630CE	10' DB25 M-M serial cable	14.95	13.49

Free Technical Support

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Slim-Line D-Sub Gender Changers



For Confined Applications!

These revolutionary slim-line gender changers are only 0.69" wide, eliminating the space problems caused by standard gender changers. When plugged into your existing cable, they add only 0.44" to the cable. All-metal cases.

- Captive locking screw (male)
- Captive locking nut (female)
- Grounding tangs (male)
- Tin plated shells

Part No.	Description	1	10	100
18497CE	9-pin male to male	\$4.95	\$4.49	\$3.99
18489CE	9-pin female to female	4.95	4.49	3.99
56071CE	15-pin male to male	3.95	3.49	2.95
56063CE	15-pin female to female	3.95	3.39	2.55
119319CE	15-pin female to female HD	4.75	4.28	3.84
119301CE	15-pin male to male HD	5.25	4.76	4.19
326537CE	15-pin M-F (pass through)	2.25	1.91	1.43
18446CE	25-pin male to male	4.95	4.49	3.99
18420CE	25-pin female to female	4.95	4.49	3.99
170085CE	25-pin M-F (pass through)	2.95	2.65	2.35

D-Sub 9-Pin to 25-Pin Serial Adapters

10321CE: For PC/XT systems with DB25 serial ports.

139985CE: gold-plated contacts, extra long thumbscrews

Part No.	Description	1	10	100
10321CE	DB9 M to DB25 F	\$4.49	\$3.79	\$3.19
189632CE	DB9 M to DB25 M	3.49	3.15	2.85
139985CE	DB9 F to DB25 F	3.95	3.55	3.19

Other Manufacturers — Great Deals

D-Sub 9-Pin to 25-Pin Serial Adapters

10305CE: For use in AT or other computer systems that have 9-pin D-sub serial ports.

163740CE/153576CE: For PC/XT systems with DB25 serial ports.

Part No.	Description	1	10	100
10305CE	DB9 F to DB25 M	\$3.15	\$2.69	\$1.99
163740CE	DB9 M to DB25 F, thumbscrews on DB9 side only	2.55	2.19	1.65
153576CE	DB9 M to DB25 F, thumbscrews on DB25 side only	3.55	2.99	2.25

Full Handshaking Null Modem Adapters

Self-contained null-modem (cross-over) adapters. Change any standard straight cable into a null cable quickly and easily. Internal pin configuration:

Part No.	Description	1	10	100
17224CE	1-1, 2-3, 3-2, 4-5, 5-4, 6-20, 20-6, 7-7, 8-20			
26243CE	1-1, 2-3, 3-2, 4-8, 8-4, 5-8, 8-5, 6-20, 20-6, 7-7			
26243CE	DB25 M to DB25 F	\$3.95	\$3.65	\$3.49
17224CE	DB25 F to DB25 F	3.49	2.95	2.49

Standard D-Sub Gender Changers



- Standard 9 and 25-pin D-sub male and female gender changers for interfacing two cables or connectors of the same gender

Part No.	Description	1	10	100
16635CE	D-sub 9-pin male	\$1.95	\$1.75	\$1.49
16643CE	D-sub 9-pin female	1.95	1.75	1.49
22058CE	D-sub 25-pin male	1.95	1.49	1.05
22074CE	D-sub 25-pin female	1.99	1.79	1.65

Keyboard Adapters



159089CE/189771CE: AT keyboard adapter

- Connects PS/2 keyboard to AT

159097CE: PS/2 keyboard adapter

- Connects AT type keyboards to the PS/2
- 5-pin female DIN to 6-pin male mini DIN (PS/2)

316831CE: USB to PS/2 keyboard adapter

- USB-A female to PS/2 male

Part No.	Length	Housing	1	10	100
159089CE	1.6"	Metal	\$2.95	\$2.65	\$2.39
159097CE	1.4"	Metal	2.95	2.65	2.39
189771CE	1.7"	Plastic	2.95	2.65	2.39
316831CE	2.0"	Plastic	1.79	1.59	1.39

Other Manufacturers — Great Deals

PS/2 Keyboard Adapter

- Connects AT type keyboards to the PS/2
- 5-pin female DIN to 6-pin male mini DIN (PS/2)

Part No.	Length	Housing	1	10	100
157930CE	1.7"	Plastic/metal	\$2.65	\$2.25	\$1.69

Gender Benders Save Money

I have a box of cables for those "just in case" situations. I go to it five or six times a year. Usually a cable turns up that is almost right; perhaps a PS/2 extension cable when I need a PS/2 to AT cable.

My solution? While I have the most common cables in my stash box, I also keep a supply of gender benders (i.e., changers) with the cables. When a situation comes up, I usually have the solution immediately available. Later, I replace the improvised solution with the right cable and reclaim my gender changer(s). I'm a hero to the person with the problem, and I don't spend inordinate amounts of time looking for a solution.

Practical Practices
Money Saving Tips for the Engineer

Computer Card Brackets



- For securing cards into bus slots
- Fits standard PC/XT/AT cases
- Length: 4.75"
- See pg 109 for DB connectors

Quantity SAVE

Part No.	Description	Fig.	1	10	100
11754CE	Blank back panel	1	\$1.79	\$1.59	\$1.45
101717CE	For DB9 connector	2	1.79	1.59	1.45
101733CE	For DB25 connector	3	1.79	1.52	1.14
101741CE	For DC37 connector	4	1.79	1.52	1.14
101830CE	For DB9/DB25 conn.	5	1.79	1.59	1.45

Panel Bracket Cable Assemblies

- Standard computer back panel brackets
- Length: 12"
- Ribbon cable with header connector



355688CE: 1 serial port

149614CE: 2 serial ports

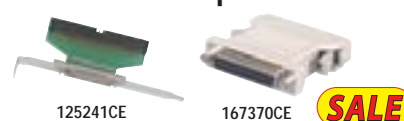
149622CE: 1 parallel port

179995CE: 1 parallel & 2 serial ports

Quantity SAVE

Part No.	Description	1	10	25
355688CE	DB9 to 10-pin header	\$2.25	\$2.00	\$1.85
149614CE	DB9M to 10-pin header	2.79	2.37	1.78
149622CE	DB25M to 10-pin header	2.79	2.50	1.87
179995CE	DB9M to 10-pin header			
	DB25M to 10-pin header			
	DB25F to 26-pin header	1.39	1.16	.84

SCSI Adapters



- See below for SCSI-type connector guide

Part No.	Description	1	10	50
125241CE	50-pin ribbon header to HPDB50 SCSI-II female	\$9.95	\$8.45	\$6.35
167370CE	DB25 female to HPDB50 male SCSI-II	1.39	1.27	1.16

SCSI TYPE / CONNECTOR REFERENCE TABLE

SCSI type	50-pin Centronics DB25	50-pin Centronics DB25	Half pitch DB25	Half pitch DB25	Wide pitch DB25	Wide pitch DB25	Wide pitch DB25
SCSI-I	✓	✓	✓	✓	✓	✓	✓
SCSI-II			✓	✓	✓	✓	✓
SCSI-II wide					✓	✓	✓
SCSI-III					✓	✓	✓
RAID: SCA, SCA-2							✓

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Amphenol

BNC Connectors and Adapters

- Frequency range: 0-4GHz
 - Contact plating: silver/gold
 - Cable type:
 - 223360CE: RG55/141/142/223/400
 - 223394CE: RG59/62/71/140/210/302
 - 223474CE: RG59/62/140/210, Belden 8241/8263/8279/9209
 - 223693CE: RG5/9/87A/214/313/325
 - Working voltage: 500V
 - Body plating: nickel/tin-lead
- Blue Part No. = Limited Quantity Available



Fig. 3



Fig. 4



Fig. 5



Fig. 1



Fig. 2



Fig. 6



Fig. 7



Fig. 8



Fig. 9



Fig. 10



Fig. 11



Fig. 12

Part No.	Product No.	Fig.	Industry No.	Description	1	10	25
223431CE	31-202	1	UG-88C/U	50Ω plug, straight, solder cup	\$4.35	\$3.69	\$2.65
223360CE	31-5	2	UG-89/U	50Ω jack, straight, clamp/solder	5.05	4.54	3.35
223458CE	31-208	3	UG-274A/U	50Ω T-adapter, jack-plug-jack	8.59	6.59	6.49
223394CE	31-12	4	UG-260/U	50Ω plug, straight, clamp	7.29	5.54	5.14
223474CE	31-212	4	UG-260B/U	50Ω plug, straight, clamp/solder	4.19	3.21	2.95
223415CE	31-17	5	CW-159/U	50Ω male shorting cap	6.09	5.73	4.36
223440CE	31-203	6	UG-290A/U	50Ω receptacle, straight/flange, solder cup	7.25	5.73	4.24
223482CE	31-218	7	UG-491A/U	50Ω in-series adapter, plug-plug	8.35	6.99	5.99
223491CE	31-219	8	UG-914/U	50Ω in-series adapter, jack-jack	4.55	4.22	3.08
223554CE	31-3220	9	UG-492D/U	50Ω bulkhead adapter, straight, jack-jack	10.25	8.83	7.19
223511CE	31-221	10	UG-1094/U	50Ω bulkhead receptacle, straight, solder cup	3.15	2.43	1.75
223538CE	31-2221	11	UG-1094A/U	50Ω bulkhead receptacle, straight, solder cup	2.89	2.48	1.81
223520CE	31-236	10	UG-625B/U	50Ω bulkhead receptacle, straight, pin/pin	3.15	2.52	1.86
223693CE	6775	12	UG-959/U	50Ω straight plug, clamp/solder	12.59	9.56	8.54

To Find Additional Products In This Series, Visit www.Jameco.com/Prod/AmphenolBNC

Amphenol

UHF Connectors and Adapters

- Frequency range: 0-300MHz
 - Contact plating: nickel & silver
 - Cable type: 223600CE/223677CE: RG8/9/87A/214/313/225
 - Working voltage: 500V
- Blue Part No. = Limited Quantity Available



Fig. 1



Fig. 2



Fig. 3



Fig. 4



Fig. 5

Part No.	Product No.	Fig.	Industry No.	Description	1	10	25
223562CE	83-1AP	1	UG-646/U	In-series right angle adapter, jack-plug	\$8.15	\$7.59	\$6.16
223589CE	83-1J	2	PL-258	In-series straight adapter, jack-jack	9.69	7.12	5.59
223837CE	83-1T	3	M-358	In-series T-adapter, jack-plug-jack	11.25	8.65	6.55
223597CE	83-1R	4	SO-239	Panel receptacle, solder cup, PBT polyester insulator	3.09	2.49	2.35
223600CE	83-1SP	5	PL-259	Straight plug, solder, diallyl phthalate insulator	3.65	2.81	2.48
223677CE	83-822	5	PL-259	Straight plug, solder, TFE insulator	3.95	3.02	2.48

Connector Grades!

Connectors listed with a standard or UG# are INDUSTRIAL GRADE connectors which provide comparable performance and generally feature machine tooled, nickel plated brass bodies, Teflon insulators, and either gold or silver plated contacts. RFX designated parts are COMMERCIAL GRADE connectors which are typically low-cost connectors that use die-cast and molded components. Performance will not be equal to the industrial or military grade but is ideal for use on a variety of commercial applications. CONSUMER GRADE connectors are similar to commercial grade which are typically die-cast and molded connectors but are of lower cost. These connectors have limited mating capabilities and performance will not be equal to industrial or commercial grade. Typically these lower-cost connectors are used in consumer applications.

Amphenol

BNC 50Ω Cable Plugs

BNC 3-Piece

- Silver-plated
- Frequency range: 0-4GHz with low reflection
- Attachment (outer/inner): crimp/crimp

188306CE: RG58/184

188349CE: RG174/188/316



188306CE



188349CE

Part No.	Product No.	1	10	25
188306CE	31-320-RFX	\$1.49	\$1.26	\$1.03
188349CE	31-315-RFX	1.89	1.63	1.22

Amphenol

BNC Adapters



188411CE



188429CE



188402CE

- Frequency range: 0-4GHz with low reflection

188411CE: Straight jack-to-jack

188429CE: Jack-plug-jack

188402CE: Gasketed jack-to-jack

Part No.	Product No.	1	10	25
188411CE	31-219-RFX	\$2.99	\$2.66	\$1.99
188429CE	31-208-RFX	4.15	3.37	2.56
188402CE	31-220G-RFX	4.15	3.69	2.52

Amphenol

Type N Crimp Plug

- Silver-plated
- RG58/141
- Attachment (outer/inner): crimp/crimp



Part No.	Product No.	1	10	25
188445CE	82-5375-RFX	\$5.15	\$4.35	\$2.96

Amphenol

SMA Brass Plug

- Frequency range: 0-18GHz
- Outer cable attachment: crimp
- Inner cable attachment: solder
- Construction: captive contact
- Type: crimp plug
- For RG174/U, RG188/U, and RG316/U cables



Part No.	Product No.	1	10	25
188488CE	901-9877-RFX	\$3.45	\$2.99	\$2.39

Amphenol

SMA PCB Jacks

- Application: cellular phone, data communication, instrumentation, and video
- 50Ω impedance
- Frequency range: 0-18GHz
- Temperature range: -65°C to 165°C



188509CE

188525CE

Part No.	Product No.	1	10	25
188509CE	901-144-8-RFX	\$3.25	\$2.73	\$2.35
188525CE	901-143-6-RFX	5.19	4.20	3.65

Type N Adapter

- Male to male
- Nickel plated machined brass construction
- Gold plated contacts



Part No.	Description	1	10	25
309622CE	N-series adapter	\$3.75	\$2.99	\$2.45



BNC Connectors and Adapters



Fig. 1



Fig. 2



Fig. 3



Fig. 4



Fig. 5



Fig. 6



Fig. 7



Fig. 8



Fig. 9



Fig. 10



Fig. 11



Fig. 12

Part No.	Cross Ref. No.	Fig.	Industry No.	Description	1	10	25
355098CE	31-2	1	—	50Ω BNC plug, clamp, for RG-58/141/142/400 cables	\$3.59	\$2.75	\$2.55
311343CE	31-10-RFX	2	—	50Ω BNC jack, bulkhead	1.89	1.56	1.26
355101CE	31-202	1	—	50Ω BNC plug, clamp, for RG-55/58/141/142/223/400 cables	3.59	3.07	2.23
355119CE	31-203	3	UG-290A/U	50Ω BNC receptacle, panel mount, solder cup	5.65	4.42	3.28
355127CE	31-208-RFX	4	UG-274A/U	50Ω BNC T-adaptor, jack-plug-jack	3.29	2.81	1.92
355135CE	31-212	1	UG-260B/U	50Ω BNC plug, clamp, for RG-59/62/71/140/210/302 cables	3.49	2.67	2.48
363961CE	31-218	5	—	50Ω BNC straight adapter, plug-plug	7.69	5.91	4.88
355151CE	31-219-RFX	6	—	50Ω BNC straight adapter, jack-jack	2.49	2.21	1.68
363979CE	31-220G-RFX	7	—	50Ω BNC bulkhead adapter, jack-jack	2.75	2.47	1.69
355362CE	6775	1	—	50Ω BNC plug, clamp/solder, for RG-8/9/87A/213/214/225	8.09	7.99	7.28
311319CE	68175-5RFX	9	—	50Ω BNC 3-pc plug for RG-159	1.15	.98	.80
311327CE	69475	1	—	50Ω BNC plug, clamp for RG-174/179/187/188/316	6.05	5.18	3.56
311351CE	31-220N-RFX	7	—	50Ω BNC bulkhead adapter, jack-jack	2.59	2.24	1.55
355178CE	31-221	8	UG-1094/U	50Ω BNC bulkhead receptacle w/ grounding lug, solder cup	2.09	1.61	1.18
311378CE	31-315	9	—	50Ω BNC 3-pc cable crimp plug, for RG-174 cables	3.79	3.77	2.58
355215CE	31-315-RFX	10	—	50Ω BNC 3-pc plug, crimp, for RG-174/U; RG-188A/U; RG-316/U cables ...	1.55	1.36	1.03
355223CE	31-318-RFX	11	—	50Ω BNC bulkhead jack, for RG-174/188/316 cables	2.95	2.75	2.22
355240CE	31-320-RFX	10	—	50Ω BNC 3-pc plug, crimp, for RG-58/141 cables	1.19	1.05	.84
311394CE	31-321	12	—	50Ω BNC 3-pc cable crimp plug, for RG-59 cables	4.49	3.48	2.38
311408CE	31-321-RFX	12	—	50Ω BNC 3-pc cable crimp plug, for RG-59 cables	1.25	1.05	.86
355258CE	31-2221	13	UG-1094A/U	50Ω BNC bulkhead receptacle, solder cup	2.39	2.06	1.52
311511CE	31-70000	14	—	75Ω 3-pc plug, crimp, RG-6 type, Belden 9248/1694A	4.19	3.49	3.07
311520CE	31-70008-1000	14	—	75Ω BNC 3-pc plug, crimp, for RG-59/62 cables, Belden 8241/8263/8279/9209 cables	5.85	4.48	3.07
311538CE	31-71000-RFX	15	—	75Ω BNC 3-pc plug, crimp, for RG-6 type 0.295" O.D. cables, Belden 9248/1694A cables	1.89	1.78	1.37
311546CE	31-71008-RFX	16	—	75Ω BNC 3-pc plug, crimp, for RG-59/62 cables, Belden 8241/8263/8279/9209 cables	1.25	1.05	.86
311554CE	31-71013-RFX	17	—	75Ω BNC plug, crimp, for RG-179/187 cables	1.55	1.36	1.05
311562CE	31-71014-RFX	18	—	75Ω BNC jack, crimp, for RG-179/187 cables	1.75	1.56	1.07
311571CE	31-71032	19	—	75Ω BNC 3-pc plug, crimp, for Belden 8281/88281 cables	3.05	2.62	2.08
311589CE	31-71033	20	—	75Ω BNC 3-pc plug, crimp, for Belden 8218 cables	2.89	2.70	1.89



Fig. 13



Fig. 14



Fig. 15



Fig. 16



Fig. 17



Fig. 18



Fig. 19



Fig. 20



TNC Type Connector



Part No.	Cross Ref. No.	Fig.	Industry No.	Description	1	10	25
311415CE	31-2367-RFX	21	—	50Ω TNC plug, crimp-crimp, for RG-58/141 cables	\$1.25	\$1.11	\$.92

Fig. 21



Type N Connectors



Part No.	Cross Ref. No.	Fig.	Industry No.	Description	1	10	25
311600CE	82-97-RFX	22	UG-58A/U	50Ω Type N receptacle jack, panel mount	\$3.59	\$2.56	\$2.31
311618CE	82-202-1006	23	—	50Ω Type N clamp plugs, for B9913/Amp TWB 4001 cables	6.59	4.97	4.07



Fig. 22



Fig. 23



SMA Connectors



Part No.	Cross Ref. No.	Fig.	Industry No.	Description	1	10	25
355282CE	901-143-6RFX	24	—	50Ω SMA jack, right angle, PC mount	\$4.35	\$3.85	\$3.60
355291CE	901-9876-RFX	25	—	50Ω SMA plug, crimp, for RG-58C/U; RG58/U cables	2.55	2.21	1.80
355303CE	901-9877-RFX	26	—	50Ω SMA plug, crimp, for RG-174/U; RG-188A/U; RG-316/U cables	2.55	2.21	1.80



Fig. 24



Fig. 25



Fig. 26



MMCX Connector



Part No.	Cross Ref. No.	Fig.	Industry No.	Description	1	10	25
311686CE	908-43200	27	—	50Ω MMCX right angle plug, crimp for RG-178/U cables	\$6.35	\$5.15	\$4.97
311693CE	904-43300	27	—	50Ω MMCX right angle plug, crimp for RG-174/188/316	7.09	6.29	5.59

Fig. 27



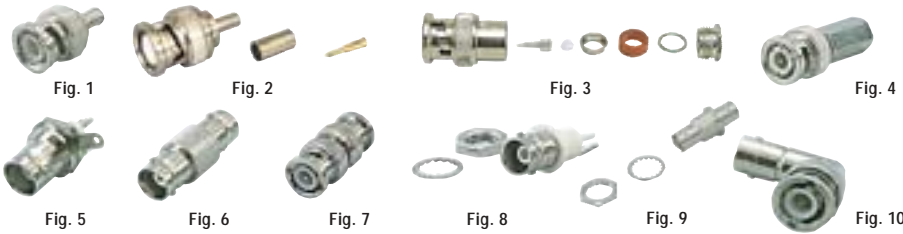
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BNC Coax Connectors

- Miniature, lightweight units designed to operate up to 11GHz and typically yield low reflection up to 4GHz



Part No.	Fig.	Description	1	10	100	500
71458CE	1	BNC male terminator (50Ω)	\$1.55	\$1.15	\$0.99	\$0.89
71790CE	1	BNC male terminator (75Ω)	1.35	1.09	.89	.73
135618CE	2	BNC male with pin and ferrule (RG6)	.89	.69	.45	.39
71482CE	2	BNC male with pin and ferrule (RG58)	1.65	1.49	1.35	1.25
71271CE	2	BNC male with pin and ferrule (RG59/62)	.81	.66	.59	.54
112109CE	2	BNC male with pin and ferrule (RG174)	1.59	1.45	1.29	1.15
119394CE	3	BNC male clamp-on (RG59/62)	1.39	1.25	1.15	.89
108994CE	4	BNC male twist-on (RG58)	1.49	1.35	1.19	.95
71781CE	4	BNC male twist-on (RG59/62)	1.09	.99	.89	.79
71589CE	5	BNC female panel mount (UG-1094A)	1.49	1.35	1.25	1.09
71909CE	6	BNC female/female coupler (UG-914)	1.29	.99	.85	.74
127343CE	7	BNC male/male coupler (UG-491B/U)	1.99	1.79	1.39	1.29
111561CE	8	BNC female isolated bulkhead	2.29	1.99	1.79	1.59
148224CE	9	BNC female bulkhead feed-thru	1.99	1.79	1.59	1.39
148232CE	9	BNC female isolated bulkhead feed-thru	2.49	2.25	1.79	1.35
127351CE	10	BNC M-F right angle (DG-306B/O)	2.49	2.19	1.85	1.59
160928CE	11	BNC female, crimp type (RG58)	1.25	1.09	.99	.89
161921CE	11	BNC female, crimp type (RG174)	1.49	1.35	1.19	1.05
174289CE	12	BNC female chassis mount	1.19	.98	.88	.79
174297CE	13	BNC female twist-on bulkhead	2.25	2.02	1.62	1.22
174254CE	14	BNC male to F connector female	1.99	1.59	1.45	1.19
207183CE	15	BNC male to RG58/59 crimp on	3.99	3.59	2.89	2.15



JAMECO ValuePro

BNC PCB Connectors

- Maintains matching impedance at 50Ω & 75Ω
- Ideal for LAN cards & precision video

Part No.	Description	Length (L)	1	10	100	500
146510CE	BNC female R/A plastic insulation	1.37"	\$1.95	\$1.75	\$1.49	\$1.25
161656CE	BNC female right-angle metal	.861"	2.29	1.99	1.79	1.59



Other Manufacturers — Great Deals

- Length: .830"

Part No.	Description	1	10	100	500
210884CE	BNC female straight/panel mount metal	\$2.29	\$2.05	\$1.67	\$1.25



JAMECO ValuePro

BNC Adapters

- Silver-plated • General purpose coax T-adapter
- ThinNet/Ethernet LAN adapter

Part No.	Description	1	10	100	500
118594CE	Male to female/female T-adapter	\$2.39	\$2.15	\$1.75	\$1.25
207095CE	Female to male/male T-adapter	6.99	6.25	5.59	4.99
72629CE	Female to female/female T-adapter	2.49	2.25	1.99	1.69
207087CE	Female to male/female T-adapter	9.95	8.95	6.45	5.39
100597CE	Male to female/female T-adapter (180°)	5.99	5.39	4.85	3.99
207116CE	Male to female/female/female T-adapter	7.19	6.45	5.79	4.95
117461CE	Male to female/female T-adapter (90°)	4.29	3.89	3.49	2.99
207124CE	Male/male to female/female T-adapter	4.49	4.05	3.25	2.45
207167CE	RCA female to BNC female	1.99	1.79	1.59	1.39
114788CE	RCA female to BNC male adapter	1.35	1.05	.99	.98
207175CE	RCA male to BNC male	1.99	1.79	1.59	1.39
114753CE	RCA male to BNC female adapter	1.59	1.45	1.29	1.09
114770CE	BNC female to "F" connector male adapter	1.79	1.59	1.39	1.19
207141CE	3.5mm mono male to BNC female	1.69	1.49	1.27	.95



JAMECO ValuePro

BNC Male Coax Cables



RG6 75Ω Cables

Part No.	Description	1	10	50	100
176794CE	3' BNC to BNC	\$3.95	\$3.55	\$3.19	\$2.89
176815CE	6' BNC to BNC	4.95	4.49	4.05	3.35

RG58/U 50Ω Cables

- For Ethernet networks, oscilloscopes

Part No.	Cross Ref. No.	Length (ft.)	1	10	50	100
181307CE	CRG58-1RR	1	\$3.65	\$3.29	\$2.95	\$2.75
102314CE	CRG58-1	1.5	3.99	3.39	2.87	2.15
256743CE	CBB-224-24	2	\$9.75 4.15	3.69	3.32	2.99
11404CE	CRG58-3	3	4.29	3.89	3.49	3.15
102331CE	CRG58-6	6	4.39	3.99	3.59	3.19
152311CE	RG58MF-6*	6	2.95	2.66	2.12	1.59
180822CE	CRG58-10	10	4.49	3.99	3.40	2.99
102349CE	CRG58-12	12	4.95	4.49	3.99	3.39
169818CE	CRG58-15	15	4.95	4.46	3.56	2.67
102381CE	CRG58-100	100	13.49	12.14	9.71	7.28

*152311CE has male & female coax

Other Manufacturers

102357CE	CRG58-25	25	\$6.49	\$5.84	\$4.67	\$3.44
102365CE	CRG58-50	50	9.49	8.54	6.83	5.12
319644CE	205-5100	100	13.09	11.89	9.52	7.13

JAMECO ValuePro

RG59/U 75Ω Cables

- For CATV and video patch cords

Part No.	Cross Ref. No.	Length (ft.)	1	10	50	100
86471CE	CRG59-1	1.5	\$2.99	\$2.69	\$2.45	\$2.19
85542CE	CRG59-6	6	3.75	3.39	2.73	2.05
102373CE	CRG59-12	12	5.49	4.95	4.45	3.99
262730CE	EBC-525	25	9.95	8.95	8.05	7.25
262748CE	EBC-550	50	17.05	16.25	15.45	14.69
262764CE	EBC-510	100	30.39	28.89	27.45	25.99

JAMECO ValuePro

RG174/U 50Ω Cables

- For Ethernet networks, oscilloscopes

Part No.	Cross Ref. No.	Length (ft.)	1	10	50	100
111472CE	RG174U3	3	\$3.85	\$3.49	\$3.15	\$2.85
111481CE	RG174U6	6	4.59	4.15	3.75	3.35

SMB Connectors



- For use with RG-174 coax
- 50Ω crimp type • Gold plated
- Use with crimping tool P/N 114534CE, pg 258

Part No.	Description	1	10	50
172363CE	Bulkhead crimp jack	\$3.49	\$2.95	\$2.49
172371CE	Cable crimp plug	4.29	3.89	3.49

SMB PCB Connector

- 0-4GHz electrical performance
- Gold plated brass
- Insulation: teflon
- Contact: beryllium copper

Part No.	Description	1	10	50
167311CE	Right angle PCB	\$4.45	\$3.89	\$3.25

SMA/SMB 50Ω Coax Cables

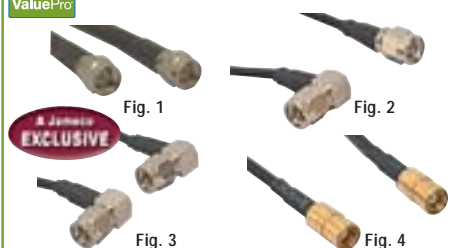


Fig. 1: SMA male to SMA male
Fig. 2: SMA male to SMA right angle male
Fig. 3: SMA right angle male to SMA right angle male
Fig. 4: SMB plug to SMB plug

Part No.	Cable	Fig.	Lgth (ft.)	1	10	50
159370CE	RG-58	1	2	\$4.49	\$3.99	\$3.49
159396CE	RG-58	1	6	5.49	4.89	4.19
169800CE	RG-174	1	0.5	5.59	4.99	4.55
163854CE	RG-174	1	1	4.49	3.95	3.39
153381CE	RG-174	1	2	4.95	4.29	3.39
153390CE	RG-174	1	4	5.49	4.75	4.29
159450CE	RG-174	1	6	6.79	6.15	5.55
175126CE	RG-174	2	0.5	4.49	3.95	3.49
175134CE	RG-174	2	1	4.95	4.25	3.75
175142CE	RG-174	3	0.5	5.75	5.25	4.49
175151CE	RG-174	3	1	6.25	5.75	4.75
175169CE	RG-174	4	0.5	4.25	3.19	2.80
175177CE	RG-174	4	1	5.29	4.79	3.95

SMA Connectors, Adapters and Couplers



- Application: cellular phone, data communication, instrumentation, and video
- Frequency range: 0-18GHz
- Temperature range: -65°C to 165°C
- 50Ω impedance
- Plating: gold and nickel

Connectors

Part No.	Description	Cable Type	Plated	1	10	50	100
157972CE	SMA 50Ω crimp type male plug connector	RG-58	Gold	\$3.99	\$3.59	\$3.29	\$2.99
153365CE	SMA 50Ω crimp type male plug connector	RG-174	Gold	4.39	3.95	3.55	3.19
145381CE	SMA straight female PCB mount connector, 4 legs	—	Gold	5.25	4.75	4.25	3.49
145373CE	SMA 90° female PCB mount connector, 4 legs	—	Gold	7.39	6.65	5.95	5.39
153285CE	SMA bulkhead solder female w/ washer, rear mount	RG-58/174	Gold	3.49	3.15	2.85	2.59
159530CE	SMA female panel mount conn., 4 mounting holes*	RG-58/174	Gold	2.95	2.65	2.35	2.10
160021CE	SMA female panel mount conn., 2 mounting holes*	RG-58/174	Gold	3.99	3.59	3.25	2.95
160012CE	Panel mount feed thru connector female - female	—	Nickel	4.99	4.49	3.99	3.49

* 159530CE/160021CE: Solder cup

Couplers



Part No.	Description	Plated	1	10	50	100
153293CE	SMA straight coupler female - jack-to-jack	Gold	\$3.85	\$3.39	\$2.19	\$1.79
161277CE	SMA 3-way coupler, 1 male - 2 female	Gold	3.49	3.15	2.85	2.45
161293CE	SMA straight coupler male - male	Gold	3.65	3.29	2.95	2.75
161306CE	SMA right angle coupler male - female	Gold	4.99	4.49	3.99	3.65

SMA to BNC Adapters

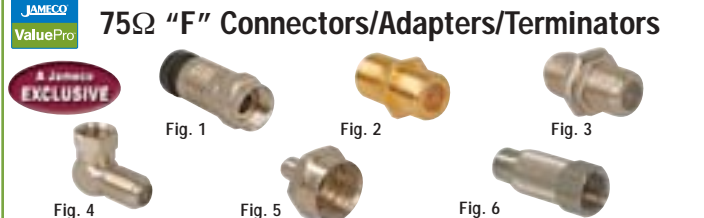


Part No.	Description	Plated	1	10	50	100
153453CE	SMA female to BNC male adapter	Nickel	\$2.49	\$2.25	\$1.99	\$1.79
159468CE	SMA female to BNC female adapter	Nickel	2.69	2.45	2.19	1.99
153592CE	SMA male to BNC male adapter	Nickel	3.99	3.59	3.19	2.89
159476CE	SMA male to BNC female adapter	Nickel	2.99	2.69	2.45	2.19

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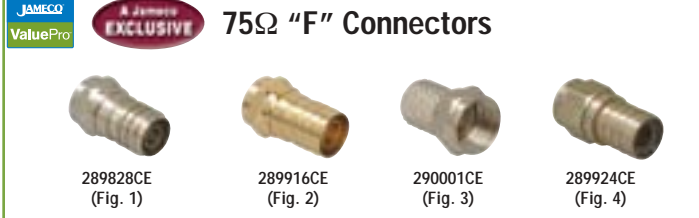
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75Ω "F" Connectors/Adapters/Terminators



Part No.	Cross Ref No.	Fig.	Description	1	10	50	100
291581CE	200-016	1	Perma-seal, RG-59 coax	\$.69	\$.59	\$.55	\$.49
291531CE	200-028	1	Perma-seal, RG-6 coax .....	.69	.59	.55	.49
291709CE	200-050	2	F-jack to jack (nickel) .....	.65	.55	.475	.38
291725CE	200-051	2	F-jack to jack (gold) .....	.95	.85	.79	.75
295371CE	200-053	3	F-panel mount jack to jack (nickel) .....	.65	.55	.475	.38
295380CE	200-107	4	F-R/A jack to plug (nickel)	1.59	1.39	1.16	.95
295451CE	200-075	5	F-plug terminator .....	.55	.45	.35	.25
309657CE	200-045	6	RCA female to F male adapter	1.75	1.35	.97	.87

75Ω "F" Connectors



Part No.	Cross Ref No.	Fig.	Description	1	10	50	100
289828CE	200-030	1	RG-59 crimp-on nickel plated	\$.22	\$.20	\$.17	\$.14
289908CE	200-031	1	RG-59 crimp-on gold plated .....	.45	.43	.41	.39
289887CE	200-035	2	RG-6 crimp-on nickel plated .....	.22	.20	.17	.14
289916CE	200-036	2	RG-6 crimp-on gold plated .....	.45	.43	.41	.39
290001CE	200-039	3	RG-6 twist-on nickel plated .....	.79	.69	.45	.32
289975CE	200-040	3	RG-59 twist-on nickel plated .....	.79	.69	.45	.32
289924CE	200-038	4	RG-6 crimp-on weatherproof seal, brass .....	.69	.59	.49	.39
314510CE	200-024	4	RG-6 crimp-on weatherproof seal .....	.55	.46	.37	.33



Terminal Blocks and Header

- For detailed specifications, please see our website at www.Jameco.com
- 164814CE: Male header (.197") for use with 164793CE and 164806CE

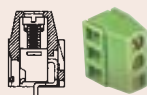


Fig. 1 (99397CE)

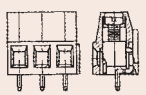


Fig. 2 (160784CE)

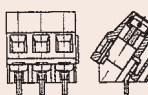


Fig. 3 (161066CE)



Fig. 4 (189675CE)



Fig. 5 (164793CE)

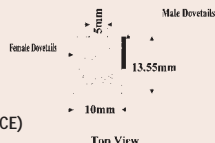


Fig. 6 (164806CE)



Fig. 7 (249084CE)

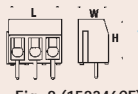


Fig. 8 (152346CE)



Fig. 9 (164814CE) use w/ Fig. 5 & 6

Part No.	Mfg.	Product No.	Fig.	Term.	Terminal Spacing	1	10	100	1000
99426CE	Dinkle	DT128/2	1	2	.197"/5mm	.72	\$.55	\$.44	\$.40
99397CE	Dinkle	DT128V3P	1	3	.197"/5mm	.99	.89	.79	.59
160784CE	Dinkle	EK500V-02P	2	2	.197"/5mm	.65	.55	.45	.39
160792CE	Dinkle	EK500V-03P	2	3	.197"/5mm	.95	.85	.75	.69
161066CE	Dinkle	EK500A-02P	3	2	.197"/5mm	.75	.65	.49	.39
161058CE	Dinkle	EK500A-03P	3	3	.197"/5mm	.95	.85	.75	.69
189675CE	OST	EDC500/2DS	4	2	.197"/5mm	.79	.71	.64	.58
189667CE	OST	EDC500/3DS	4	3	.197"/5mm	.89	.80	.72	.61
164793CE	OST	EDC130/2DS	5	2	.197"/5mm	.59	.53	.47	.42
164806CE	OST	EDC130/3DS	6	3	.197"/5mm	.84	.76	.62	.54
249084CE	OST	ED750/3	7	3	.200"/5.08mm	1.49	1.39	1.19	.89
152346CE	OST	EDC120/2DS	8	2	.200"/5.08mm	.65	.55	.45	.39
152354CE	OST	EDC120/3DS	8	3	.200"/5.08mm	.47	.44	.39	.30
164814CE	OST	EDSTL130/24	9	24	.197"/5mm	2.19	1.97	1.58	1.18



Double Row Barrier Blocks

- Voltage rating: 250VAC RMS max.
- Insulation: molded mono block, general purpose phenolic, black, UL94V-1
- Eyelet material: brass with nickel plating
- Screw material: steel with nickel over copper flash plating
- Solder terminal material: brass with electro-tin plating



140 Series 15A

- 3750-watts per terminal max.
- 16 AWG wire max.
- Size: 0.88"W x 0.41"H
- Screw: 5-40 x 3/16"
- Density: .375"

Part No.	Prod. No.	Pos.	Length	1	10	100
230973CE	2-140	2	1.41"	\$.99	\$.89	\$.74
230981CE	3-140	3	1.78"	1.29	1.15	.95
230990CE	4-140	4	2.16"	1.45	1.29	1.05
231001CE	5-140	5	2.53"	1.59	1.44	1.18
231010CE	6-140	6	2.91"	1.99	1.79	1.48
231028CE	7-140	7	3.28"	2.19	1.95	1.59
231036CE	8-140	8	3.66"	2.49	2.24	1.83
231044CE	9-140	9	4.03"	2.79	2.49	2.03
231052CE	10-140	10	4.41"	3.25	2.89	2.35
231061CE	12-140	12	5.16"	3.55	3.15	2.59

141 Series 20A

- 5000-watts per terminal max.
- 14 AWG wire max.
- Size: 1.13"W x 0.5"H
- Screw: 6-32 x 1/4"
- Density: .438"

Part No.	Prod. No.	Pos.	Length	1	10	100
231351CE	2-141	2	1.63"	\$.99	\$.85	\$.72
231360CE	3-141	3	2.10"	1.69	1.45	1.09
231378CE	4-141	4	2.50"	1.79	1.59	1.25
231386CE	5-141	5	2.94"	1.85	1.64	1.33
231394CE	6-141	6	3.38"	1.99	1.75	1.45
231407CE	7-141	7	3.81"	2.49	2.25	1.85
231415CE	8-141	8	4.25"	2.79	2.35	1.94
231423CE	9-141	9	4.69"	2.99	2.59	2.19
231431CE	10-141	10	5.13"	3.19	2.79	2.29
231440CE	12-141	12	6.00"	3.59	3.29	2.69

To Find Additional Cinch Double Barrier Blocks, Visit www.Jameco.com/Prod/Cinch2RBlocks



www.Jameco.com

Our enhanced website offers nearly 15,000 more products. Find them quickly and order them easily.



European Terminal Blocks

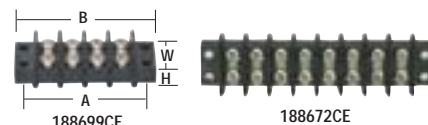
- Number of poles: 12
- 1.2mm raised base
- Working temperature: 230°F (110°C)
- Material: Polyamide 66 (nylon 66), UL94V-2, natural
- Voltage: 600V
- Terminal insert: brass metal alloy, nickel plated
- Wire protector: stainless steel spring
- Screws: zinc plated, yellow chromed



215010CE

Part No.	Cross Ref.	Amps	AWG	1	10	100
215010CE	PA8H	20A	12-22	\$1.79	\$1.59	\$1.29
215028CE	PA10H	30A	10-22	1.89	1.69	1.39
215036CE	PA12H	35A	10-22	2.59	2.29	1.99

KULKA® 601 GP Series Double Row Terminal Blocks



- Base: general purpose phenolic; 150°C
- Screws: #6-32, binder head, phillips-slot
- Terminals: brass plated
- Width (W): 1.12"
- .437" (11 mm) centers
- Height (H): .50"
- 1100Vrms; 20A ratings; for 14-16 AWG wires
- Open block design
- UL/CSA/CE approved



Part Number	Product Number	Poles	Dimensions A" B"	1	10	50
188699CE	601GP4	4	2.19 2.50	\$1.69	\$1.49	\$1.35
188681CE	601GP6	6	3.06 3.38	2.39	2.19	1.89
188672CE	601GP8	8	3.94 4.25	2.95	2.75	2.49
188664CE	601GP10	10	4.81 5.13	3.49	3.25	2.95
188701CE	601GP12	12	5.69 6.00	5.49	4.95	3.95



Metric Double Row Terminal Blocks

- Body material: black thermoplastic (UL94V-0)
- Terminals: brass tin plated
- 12-18 AWG
- Screws: steel nickel plated
- Insulation withstanding voltage: 2000VAC min.
- Insulation resistance: 1000MΩ or more at 500VDC

10A @ 600V

- Screw size: M3.0
- Width (W): 19.5mm
- Height (H): 11.9mm



Part Number	Cross Ref. No.	Poles	Dimensions A" B"	1	10	50
208856CE	GGE-10-4P	4	47.5 55	\$.99	\$.89	\$.79
208864CE	GGE-10-6P	6	64.5 74	1.39	1.25	1.15
208872CE	GGE-10-8P	8	95 102.5	1.69	1.59	1.49
208899CE	GGE-10-10P	10	104.5 112	2.39	2.15	1.89
208881CE	GGE-10-12P	12	123.5 131	2.79	2.49	2.25

20A @ 600V

- Screw size: M3.5
- Width (W): 22.0mm
- Height (H): 13.2mm



Part Number	Cross Ref. No.	Poles	Dimensions A" B"	1	10	50
207538CE	GGE-20-4P	4	54.5 63.5	\$1.39	\$1.25	\$1.10
207546CE	GGE-20-6P	6	76.3 85.3	1.99	1.79	1.59
207554CE	GGE-20-8P	8	98.1 107.1	2.59	2.35	2.15
207562CE	GGE-20-10P	10	119.9 128.9	3.29	2.99	2.69
207571CE	GGE-20-12P	12	141.7 150.7	3.59	3.19	2.79



DIN Rail-Mounted Terminal Block and DIN Rail

Foot snaps onto standard DIN and DIN 2 rails. Terminals are positively retained on rails, but can be removed without disturbing adjacent units.

- Molded thermoplastic • Spacing: 5.06mm (.199")
- UL rated voltage and current: 600V @ 20A • 14-22 AWG

Part No.	Product No.	Type			
237083CE	41296.2	SR2.5		\$.89	\$.79
248735CE	2094.0	TS35 x 7.5 (35mm width x 7.5mm depth)		6.79	5.45
					4.10

237083CE



248735CE

Sold in 1 meter (39") length

1 10 100

AviKrimp™ Solderless Terminals

The AviKrimp version of these fully insulated quick disconnects give you the extra advantage of the secure metal sleeve. These parts fulfill the double crimp (support) requirements of VDE and DIN specifications. They are the premiere line when full insulation and strain relief are required.

NEW
ON THE WEB

The following series are available at the link below: 19001, 19002, 19006, 19012, 19019, 19035, 19036, 19039, 19058, 19073, 19115, 19127, 19139, 19183, 19198, 19199, 19213, 19606, 19705, 19712, 19713.

These products ship from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

See Our Complete AviKrimp Series Offering at
www.Jameco.com/Prod/MolexAviKrimp

NylaKrimp™ Solderless Terminals

Designed specifically for larger wire applications the color-coded barrel is formed by affixing a permanent rigid, color-coded nylon insulating sleeve to the barrel. The insulation has a funnel entrance into the electrical barrel that eliminates "wire strand" fold back; increases crimping rate and enhances wire termination.

NEW
ON THE WEB

The following series are available at the link below: 19063, 19067, 19202, 19207.

These products ship from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

See Our Complete NylaKrimp Series Offering at
www.Jameco.com/Prod/MolexNylaKrimp

KrimpTite™ Solderless Terminals

This basic Molex barrel style terminal is a non-insulated terminal that features a quality 1-piece design. It is also the most economical style and has the greatest variety of uses where special features are not required.

NEW
ON THE WEB

The following series are available at the link below: 19008, 19016, 19041, 19069, 19098, 19118, 19129, 19141, 19189, 19203, 19208, 19211.

These products ship from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

See Our Complete KrimpTite Series Offering at
www.Jameco.com/Prod/MolexKrimpTite

VibraKrimp™ Solderless Terminals

- Female based seam quick disconnect w/ vibration support
- Brass contact, tin plating
- Wire gauge ranges: 24-26/18-22/14-16
- Tab sizes: 2.8mm (.110"); 4.7mm (.187"); 6.3mm (.250")

NEW
ON THE WEB

These products ship from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

See Our Complete VibraKrimp Series Offering at
www.Jameco.com/Prod/MolexVibraKrimp

VersaKrimp™ Solderless Terminals

A barrel type non-insulated terminal that features a seam that is brazed (welded) closed. This allows for crimping from any direction without the barrel opening up and provides greater tensile strength.

The following series are available at the link below: 19135, 19147, 19193, 19205, 19207 & 19215.

NEW
ON THE WEB

These products ship from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

See Our Complete VersaKrimp Series Offering at
www.Jameco.com/Prod/MolexVersaKrimp

InsulKrimp™ Solderless Terminals

- Designed for dense packaging; lower profile height
- Integrity of mechanical/electrical performance is assured for wire security, operating temperatures, tensile strength, dielectric parameters and insertion/extraction force
- Color coded translucent insulator allows easy identification of terminal size and wire gauge
- Translucent "see-through" insulator provides fast on-line quality control inspection by allowing quick visual check of wire and terminal assembly
- Funnel entrance is designed for increased crimping rates by speeding wire delivery into the crimp section and eliminating wire strand fold-back
- Wire stop stamped into the crimp barrel prevents insertion of over-stripped wires.

NEW
ON THE WEB

The following series are available at the link below: 19003, 19004, 19005, 19007, 19011, 19017, 19034, 19070, 19071, 19075, 19099, 19121, 19131, 19144, 19154, 19160, 19206, 19212, 19606.

These products ship from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

See Our Complete InsulKrimp Series Offering at
www.Jameco.com/Prod/MolexInsulKrimp



Insulation Displacement Connectors (IDC)

Wire Tap – Provides an easy, quick and reliable tap. This tap and run splice is actually a fully insulated female quick disconnect that can be spliced onto a wire and then mated with a fully insulated male quick disconnect without twisting, stripping or soldering.

Wire Tap



Multilock Connectors –

Using only ordinary channellock pliers, these color-coded connectors make quick, reliable pre-insulated splices without stripping, soldering, twisting or the need for special tools. This will tap-splice, pigtail-splice, parallel-splice or in-line splice insulated copper wire conductors.

NEW
ON THE WEB

Multilock



The following series are available at the link below: 19216, 19221.

These products ship from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

See Complete Molex IDC Series Offering at
www.Jameco.com/Prod/MolexIDC



Perma-Seal™ Terminals and Splices

Terminals and splices provide a rugged, environmentally sealed connection for wire sizes 8-22 AWG. Insulates, seals and protect joints from physical abuse, abrasion, water, salt and other corrosive compounds. The inner wall of the heat-shrinkable perma-seal sleeve is lined with a special hot-melt adhesive that is inert at room temperature, permitting wires to be inserted easily into splices and terminals. As the sleeve is heated, the adhesive melts and flows under pressure from the tubing, which creates a voidless seal.

NEW
ON THE WEB

These products ship from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

See Complete Perma-Seal Series Offering at
www.Jameco.com/Prod/MolexPermaSeal



MX150L Sealed Connector System

For UL Style Wire Applications

- 5.83mm (.230") pitch
- Vertical entry • Black
- SPS crystalline polymer, glass filled; UL94V-0
- Max current: 18A



These products ship from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

See Our Complete MX150L Series Offering at
www.Jameco.com/Prod/MolexMX150L



Heat Shrink Terminal Butt Splice Assembly

- Wire gauge ranges: 22-18/16-14/12/10/8

NEW
ON THE WEB



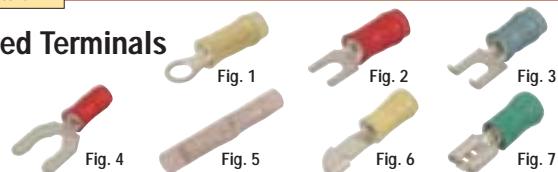
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See Our Complete Butt Splice Offering at
www.Jameco.com/Prod/MolexButtSplice

AMP P.I.D.G. (Pre-Insulated Diamond Grip) Nylon Insulated Terminals

Designed for complete and uniform reliability. Nylon insulated terminals feature a tin plated copper body with a copper sleeve fitted over the terminal barrel to provide maximum insulation support.

- High dielectric strength
- Temperature rating: 105°C
- Funnel ramp entry
- Copper support sleeve for insulation
- Meets MIL-T-7928

**Ring Tongue Terminals**

Part No.	Product No.	Fig.	Stud Size	Wire (AWG)	Color	1	10	100
302594CE	323912	1	#2	26-22	Yellow	\$.21	\$.208	\$.186
302607CE	323914	1	#4	26-22	Yellow	.22	.215	.192
302615CE	323915	1	#6	26-22	Yellow	.21	.208	.186
302623CE	323916	1	#8	26-22	Yellow	.26	.251	.224
302631CE	324075	1	#10	26-22	Yellow	.29	.283	.171
302640CE	328657	1	#2	22-16	Red	.21	.208	.186
302658CE	31880	1	#4	22-16	Red	.21	.19	.15
302666CE	36152	1	#6	22-16	Red	.20	.145	.133
302674CE	31890	1	#8	22-16	Red	.20	.15	.133
302682CE	36154	1	#10	22-16	Red	.20	.15	.133
302691CE	31894	1	1/4"	22-16	Red	.26	.251	.172
302703CE	31895	1	5/16"	22-16	Red	.25	.242	.215
302711CE	31897	1	3/8"	22-16	Red	.31	.305	.176
302720CE	320619	1	#6	16-14	Blue	.20	.145	.133
302738CE	320565	1	#8	16-14	Blue	.20	.145	.133
302746CE	36160	1	#10	16-14	Blue	.20	.145	.133
302754CE	321045	1	1/4"	16-14	Blue	.20	.169	.162
302762CE	328998	1	5/16"	16-14	Blue	.25	.244	.167
302771CE	328999	1	3/8"	16-14	Blue	.29	.284	.172
302789CE	35149	1	#6	12-10	Yellow	.28	.182	.17
302797CE	35108	1	#8	12-10	Yellow	.20	.189	.171
302800CE	35109	1	#10	12-10	Yellow	.20	.189	.171
302818CE	35110	1	1/4"	12-10	Yellow	.33	.327	.218
302826CE	35111	1	5/16"	12-10	Yellow	.33	.327	.218
302834CE	35112	1	3/8"	12-10	Yellow	.33	.327	.218
302842CE	35151	1	1/2"	12-10	Yellow	.52	.286	.268

Spade Tongue Terminals

Part No.	Product No.	Fig.	Stud Size	Wire (AWG)	Color	1	10	100
302851CE	328394	2	#2	22-16	Red	\$.21	\$.208	\$.185
302869CE	327717	2	#4	22-16	Red	.26	.253	.225
302877CE	34541	2	#6	22-16	Red	.20	.145	.133
302885CE	32053	2	#8	22-16	Red	.21	.208	.185
302893CE	32054	2	#10	22-16	Red	.21	.208	.175
302906CE	35559	2	#6	16-14	Blue	.21	.208	.146
302914CE	32059	2	#8	16-14	Blue	.21	.208	.185
302922CE	321233	2	#8	16-14	Blue	.24	.236	.21
302931CE	32060	2	#10	16-14	Blue	.24	.236	.146
302949CE	326859	2	#6	12-10	Yellow	.42	.416	.37
302957CE	32588	2	#8	12-10	Yellow	.31	.309	.275
302965CE	32589	2	#10	12-10	Yellow	.30	.256	.24

Flanged Spade Tongue Terminals

Part No.	Product No.	Fig.	Stud Size	Wire (AWG)	Color	1	10	100
302973CE	324608	3	#2	22-16	Red	\$.28	\$.273	\$.243
302981CE	32562	3	#6	22-16	Red	.23	.227	.158
302990CE	32498	3	#8	22-16	Red	.50	.451	.438
303001CE	320861	3	#6	16-14	Blue	.24	.23	.159
303010CE	320862	3	#8	16-14	Blue	.24	.23	.204
303028CE	320863	3	#10	16-14	Blue	.23	.224	.199
303036CE	325150	3	#6	12-10	Yellow	.59	.493	.461
303044CE	32510	3	#8	12-10	Yellow	.25	.223	.19
303052CE	324015	3	#10	12-10	Yellow	.39	.288	.269

Short Spring Spade Tongue Terminals

Part No.	Product No.	Fig.	Stud Size	Wire (AWG)	Color	1	10	100
303061CE	82927	4	#4	22-16	Red	\$.22	\$.209	\$.186
303079CE	52929	4	#6	22-16	Red	.25	.238	.164
303087CE	52930	4	#8	22-16	Red	.25	.238	.212
303095CE	52931	4	#10	22-16	Red	.35	.345	.258
303108CE	52935	4	#6	16-14	Blue	.25	.238	.164
303116CE	52936	4	#8	16-14	Blue	.28	.27	.24

Short Spring Spade Tongue Terminals (Continued)

Part No.	Product No.	Fig.	Stud Size	Wire (AWG)	Color	1	10	100
303124CE	52937	4	#10	16-14	Blue	\$.28	\$.27	\$.24
303132CE	52941	4	#6	12-10	Yellow	.32	.31	.248
303141CE	52942	4	#8	12-10	Yellow	.36	.35	.282
303159CE	52943	4	#10	12-10	Yellow	.36	.351	.282

Butt & Knife Disconnect Splices

Part No.	Product No.	Fig.	Description	Wire (AWG)	Color	1	10	100
303167CE	323994	5	Butt	26-22	Yellow	\$.39	\$.339	\$.317
303175CE	320559	5	Butt	22-16	Red	.50	.496	.356
303183CE	320562	5	Butt	16-14	Blue	.57	.496	.295
303191CE	320570	5	Butt	12-10	Yellow	.85	.82	.499
303204CE	32446	6	Knife disconn.	22-16	Red	.42	.411	.27
303212CE	32448	6	Knife disconn.	16-14	Blue	.42	.411	.27
303221CE	35762	6	Knife disconn.	12-10	Yellow	1.45	1.24	1.11

Fast-On Receptacles

Part No.	Product No.	Fig.	Size (in.)	Wire (AWG)	Color	1	10	100
303239CE	60894-1	7	.110 x .032	22-18	Natural	\$.24	\$.232	\$.168
303247CE	640923-1	7	.110 x .020	22-18	Red	.22	.214	.163
303255CE	640917-1	7	.187 x .020	22-18	Red	.20	.162	.13
303263CE	640909-1	7	.205 x .020	22-18	Red	.22	.214	.163
303271CE	640911-1	7	.205 x .032	22-18	Red	.22	.214	.163
303280CE	640903-1	7	.250 x .032	22-18	Red	.20	.16	.13
303298CE	640929-1	7	.110 x .020	16-14	Blue	.22	.214	.163
303301CE	640919-1	7	.187 x .020	16-14	Blue	.22	.214	.163
303319CE	640915-1	7	.205 x .032	16-14	Blue	.22	.214	.163
303327CE	640905-1	7	.250 x .032	16-14	Blue	.20	.162	.16
303335CE	42844-1	7	.250 x .032	14-12	Green	.31	.30	.215
303343CE	640907-1	7	.250 x .032	12-10	Yellow	.25	.237	.166

To Find Additional Products, Visit www.Jameco.com/Prod/AMPTerminals

Vinyl Insulated Solderless Terminals

- Insulation thickness: .030"
- Funnel ramp entry
- Temperature to 105°C
- Use with crimping tool P/N 72995CE, pg 258
- Sold in increments of 10, 100 or 1000

**Ring & Spade Solderless Terminals**

Part No.	Description	Stud Size	Wire (AWG)	Color	10	100	1000
103683CE	Ring solderless	#6	22-16	Red	\$.11	\$.07	\$.05
103587CE	Spade solderless	#6	22-16	Red	.13	.06	.05
103595CE	Spade solderless	#8	16-14	Blue	.12	.068	.06

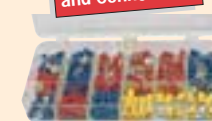
Disconnect Solderless Terminals

Part No.	Description	Blade Size	Wire (AWG)	Color	10	100	1000
106921CE	Female	.187"	22-16	Red	\$.12	\$.07	\$.05
103667CE	Female	.25"	22-16	Red	.12	.07	.05
109111CE	Female w/ hood	.25"	22-16	Red	.17	.11	.055

171-Pc. Solderless Terminal Kit

- Clear, hinged plastic box
- Use crimping tool P/N 72995CE, pg 258

170 Terminals and Connectors!



Part No.	Description	1	10	25
10989CE	Terminal kit (170 terminals and connectors)	\$8.95	\$7.95	\$7.25

Cable Connectors, Power Jacks and Plugs

Color Code Legend			
New	Sale	Lower\$	QtySave

3M Spring Connectors



This simplifies selection of the right connector for a wide range of wiring jobs. There's also less inventory to manage, and a better chance you'll have the connector you need to do every job.

285683CE: 2#22 to 2#12AWG, orange with blue skirt; replaces the orange, blue, and gray wire nut style connectors as well as 70% of the yellow wire nut and wing style connectors

285691CE: 2#18 to 2#8 to 5#12 AWG, red with yellow skirt, replaces both red and yellow wing style connectors

285704CE: 4#14 to 2#6 to 3#8 AWG, blue with gray skirt, covers both the large blue and gray connectors

• Prepackaged: order in increments of 10 or 100

Part No.	Product No.	10	100	500
285683CE	3M O/B+	\$.084	\$.075	\$.071
285691CE	3M R/Y+	.132	.106	.10
285704CE	3M B/G+	.41	.37	.32

Wire Connectors



- Material: UL approved nylon 66, 94V2
- Quick and secure method to splice control wires
- Strip wire before application • Twist on type
- Material: PVC with metal spring, except P/N 182449CE nylon 66, 94-2 and P/N 140716CE PE - metal inside

182449CE: UL/CSA approved

• Prepackaged: order in increments of 10, 100 or 1000

Part No.	Description	Color	10	100	1000
182449CE	Crimp 16-14 AWG*	Nat.	\$.06	\$.055	\$.049
182511CE	Wire-nut 16 AWG	Blue	\$.045	.04	.035
140716CE	Wire IDC 22-18 AWG	Red ....	.15	.14	.10

* Requires crimping tool (P/N 72995CE, pg 258)

Telecom Splice Connectors

- Provides clean, solid, and rapid connection of wires to keep communication lines free of noise
- Available to handle a wide range of conductor sizes

169754CE: Y-type

• Prepackaged: order in increments of 10, 100 or 1000

Part No.	Color	Wire Gauge	No. of Conductors	10	100	1000
169746CE	Yellow	22-26	2	\$.11	\$.10	\$.08
169754CE	Red	19-263Y	3Y .....	.15	.14	.12

**Save Big!
Special Values!**

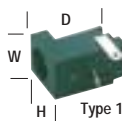
New Lower Prices = Orange
Sale Priced Items = Yellow
Quantity Discount = Green

Male & Female Power Jacks

- Use with mating power plugs, below
- Dimensions do not include barrel

Mounting	Code
Panel	C
PCB	D
Panel & PCB	E
Cable	F

Terminals	Code
Solder eyelet	A
PC board	B



Type 1



Type 2



Type 3



Type 4



Type 5



Type 6



Type 7



Type 8



Type 9

Part Number	Cross Ref. No.	Dimensions H x W x D (mm)	Type/ Mount	Circuit/ Terminal	Mating Plug (below)	Pricing			
						1	10	100	1000

1.3 mm Male Jacks

101194CE	PP024	6.0 x 6.0 x 9.0	7/D	1/B	1.3 mm female	\$.62	\$.48	\$.44	\$.36
265421CE	420ECS	7.3 x 5.0 x 11.5	1/D	1/B	1.3 mm female	.69	.55	.49	.45

2.1 mm Male Jacks

101178CE	PP014	10.9 x 9.0 x 14.5	1/D	1/A	2.1 mm female	\$.49	\$.44	\$.39	\$.35
137672CE	PP013	10.9 x 9.0 x 14.5	4/D	3/A	2.1 mm female	.40	.36	.32	.29
151589CE	DPJ-021A	13.0 x 12.6 Dia.	6/C	1/A	2.1 mm female	1.09	.93	.70	.65
151554CE	DPJ-026	15.1 x 8.0 Dia.	5/E	1/A	2.1 mm female	1.49	1.25	1.05	.89
159610CE	PJ1014A	35.8 x 12.6 Dia.	9/F	3/A	2.1 mm female	1.49	1.25	1.09	.89

2.5 mm Male Jacks

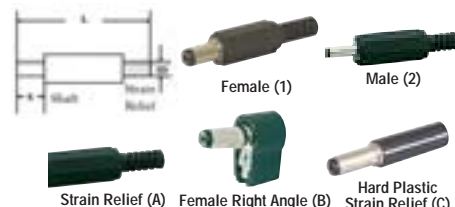
207714CE	HEC0470	11.0 x 9.0 x 14.5	1/D	1/B	2.5 mm female	\$.45	\$.35	\$.29	\$.25
101186CE	PP014A	11.0 x 9.0 x 14.5	1/D	1/A	2.5 mm female	.59	.53	.42	.32
151562CE	DPJ-026A	15.1 x 8.0 Dia.	5/E	1/A	2.5 mm female	1.49	1.24	1.13	.99
159505CE	PJ1015A	35.8 x 12.6 Dia.	9/F	3/A	2.5 mm female	1.39	1.25	1.13	1.01
202358CE	HD2388	17.0 x 12.0 Dia.	6/C	3/A	2.5 mm female	1.09	.98	.88	.79

3.5 mm Female Jacks

101143CE	PJ0352	10.0 x 10.0 x 18.5	2/E	2/A	3.5 mm male	\$.35	\$.32	\$.25	\$.19
109495CE	PJ035PM	10.5 x 9.0 x 8.8	3/C	2/A	3.5 mm male	.45	.40	.36	.32
165729CE	PJ0354	8.9 x 5.7 Dia.	8/C	3/A	3.5 mm male	.69	.59	.49	.39

Male & Female Power Plugs

- Use with mating power jacks found in table, above
- Solder eyelets 1mm diameter
- Threaded screw-on housing (strain relief)
- Use with AC/DC wall adapters, pgs 197-200
- Shield crimp tabs
- Use 24 AWG 2 conductor wire, P/N 100280CE, to make custom length power cables, pg 93



Part Number	Cross Ref. No.	Description Plug ID x OD (mm)	Dimensions (mm) S (shaft) x L x ID (strain relief)	Type	Pricing			
					1	10	100	1000

Female Plugs

71191CE	PP137	1.3 x 3.5	9.6 x 43.9 x 4.8 (black)	1/A	\$.79	\$.71	\$.65	\$.59
191484CE	PP049W	2.1 x 5.5	9.6 x 43.9 x 4.5 (white)	1/A	.69	.62	.56	.50
28759CE	PP049	2.1 x 5.5 (P205)	8.5 x 41.4 x 4.6 (black)	1/A	.59	.49	.39	.29
147328CE	PP049L	2.1 x 5.5 (P205L)	14.0 x 46.4 x 4.6 (black)	1/A	.69	.62	.56	.50
138587CE	PJ021R	2.1 x 5.5 rt. angle	12.0 x 22.5 x 3.9 (black)	1/B	.79	.63	.55	.49
190537CE	PP109S	2.5 x 5.5 (P206S)	9.0 x 43.5 x 4.8 (black)	1/A	.39	.32	.29	.19
28767CE	PP109	2.5 x 5.5 (P206)	10.1 x 45.4 x 4.3 (black)	1/A	.59	.49	.39	.33
191492CE	PP109W	2.5 x 5.5	10.1 x 45.4 x 4.5 (white)	1/A	.39	.35	.32	.26
147336CE	PP109L	2.5 x 5.5 (P206L)	13.6 x 47.5 x 4.8 (black)	1/A	.75	.68	.61	.55
168241CE	PP109N	2.5 x 5.5	13.7 x 36.5 x 3.9 (black)	1/C	.59	.49	.43	.35

Male Plugs

101135CE	PJ1025	2.5 (P201)	11.1 x 49.0 x 4.3 (black)	2/A	\$.59	\$.53	\$.39	\$.29
147459CE	PJ1025L	2.5 (P201L)	10.5 x 48.0 x 5.0 (black)	2/A	.39	.27	.26	.22
101151CE	PJ1035	3.5 (P202)	13.8 x 51.8 x 4.2 (black)	2/A	.49	.38	.35	.29
147344CE	PJ1035L	3.5 (P202L)	14.1 x 51.0 x 5.2 (black)	2/A	.49	.38	.35	.29

Automobile Power Plug & Cord Assembly

- Screw assembly with strain relief
- Accepts .25" x 1.25" fuse
- 124759CE:** pigtail end
- 364138CE:** 2.1mm x 5.5mm F connector

Part No.	Description	1	10	100
115001CE	W/ 5A/250VAC fuse	\$1.95	\$1.65	\$1.19
124759CE	W/ 3A/250VAC fuse & 3' cord	1.89	1.72	1.69
364138CE	W/ 5A/250VAC fuse & 70' cord	3.49	2.97	2.22



Bipolar and Unipolar Stepper Motors

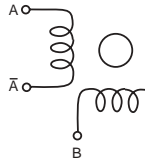
SALE

Quantity SAVE

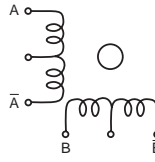
Jameco offers the industry's widest variety of off-the-shelf two-phase bipolar and four-phase unipolar stepper motors for your precision applications. Be sure to check out the wide selection of 2 to 200 VDC models below.

- Ball bearings
- Dielectric strength: 500V, 50Hz/minute
- 18" lead wires
- Ambient temperature: -10°C to +55°C
- Insulation resistance: 100MΩ @ 500VDC
- Use P/N 161998CE, pg 282, for shaft coupler

Bipolar (2-phase)



Unipolar (4-phase)



A Jameco EXCLUSIVE

Fig. 1



Fig. 2



Fig. 3



Fig. 4



Fig. 5



Fig. 6



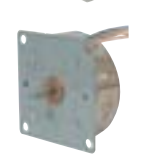
Fig. 7



Fig. 8



Fig. 9

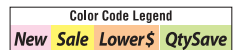


Part No.	Cross Ref. No.	Fig.	Drive System	Voltage (VDC)	Step Angle	Phase Resis. (Ohms)	Curr. (mA)	Phase Inductance (mH)	Detent Torque (g-cm)	Holding Torque (g-cm)	Mounting Hole Space Diagonal (in.)	Mounting Holes (in.)	Shaft Dia. (in.)	Shaft Length (in.)	Motor Dia. (in.)	Motor Length (in.)	Weight (lbs.)	Pricing		
																		1	10	50
237526CE	42BYGH001	3	Bipolar	2	1.8	2.1	950	2.3	200	1700	1.22	0.10	0.20	0.95	1.67	1.34	0.50	\$19.79	\$16.82	\$12.62
237497CE	39BYG101-01	2	Bipolar	2.7	1.8	6.8	400	6.5	150	650	1.22	0.10	0.20	0.75	1.54	0.79	0.26	15.95	14.35	12.95
237420CE	35BYG002	3	Bipolar	3.2	1.8	4.8	800	3	15	50	1.02	0.10	0.20	0.83	1.38	1.02	0.30	19.15	16.28	12.21
237489CE	39BYG001	2	Bipolar	5	1.8	5	1000	—	150	1800	1.22	0.10	0.20	0.91	1.54	1.34	0.44	15.95	14.35	12.95
237737CE	42BY48H08	8	Bipolar	5	7.5	9.1	550	—	130	630	1.95	0.14	0.12	0.39	1.65	0.87	0.28	7.89	7.09	6.39
237577CE	57BYG061	4	Bipolar	6	1.8	12	500	24	—	3569	1.86	0.20	0.25	0.83	2.29	1.61	1.00	29.95	26.95	24.25
237518CE	42BYG017	2	Bipolar	6.3	1.8	15	420	16	150	1400	1.22	0.10	0.20	0.51	1.67	1.34	0.50	16.49	14.02	10.51
237454CE	39BYG201	2	Bipolar	9.6	1.8	20	480	—	200	1000	1.22	0.10	0.20	0.20	1.54	0.98	0.44	13.95	11.86	10.48
395567CE	42BYG022-40*	3	Bipolar	9.6	1.8	100	240	46	—	1100	1.70	0.90	1.90	0.26	1.67	1.29	0.43	16.95	16.10	15.30
237411CE	35BYG005	2	Bipolar	12	1.8	20	500	—	1.5	10	1.02	0.10	0.20	0.83	1.38	1.10	0.37	19.15	16.28	12.21
155459CE	42BYG023*	2	Bipolar	12	1.8	30	400	36	220	2100	1.73	0.10	0.20	0.60	1.70	1.30	0.50	17.95	16.29	14.59
237471CE	39BYG401A	2	Bipolar	12	1.8	30	400	32	200	2100	1.22	0.10	0.20	0.95	1.54	1.34	0.44	19.49	17.55	15.79
237817CE	25BY2414	7	Bipolar	12	15	27	440	15.5	48	140	1.26	0.11	0.08	0.37	0.98	0.59	0.08	7.19	6.11	4.58
237462CE	39BYG401	2	Bipolar	14	1.8	31	400	32	200	2300	1.22	0.10	0.20	0.95	1.54	1.34	0.44	15.95	14.50	12.42
237446CE	35BYG008	2	Bipolar	24	1.8	1.3	1600	1	1	900	1.02	0.10	0.20	0.83	1.38	1.14	0.33	13.95	11.86	10.48
237569CE	57BYG009	4	Unipolar	2.4	1.8	1	2400	1.5	—	5914	1.86	0.20	0.25	0.83	2.29	2.20	1.40	32.29	27.45	20.58
237614CE	57BYGH801	6	Unipolar	3.3	1.8	2.2	1500	22	—	5608	1.86	0.20	0.25	0.83	2.24	2.01	1.32	35.19	29.91	22.43
237534CE	42BYGH102	5	Unipolar	3.6	1.8	3	1200	3.2	220	3000	1.22	0.10	0.20	0.95	1.67	1.57	0.50	17.95	16.15	14.55
237551CE	57BYG008	4	Unipolar	4	1.8	3.1	1300	4.4	—	4996	1.86	0.20	0.25	0.83	2.29	2.01	1.30	29.95	26.95	24.25
237593CE	85BYGH450	6	Unipolar	4.4	1.8	2.2	2000	—	—	21414	2.76	0.26	0.51	1.38	3.35	2.95	4.90	161.95	137.66	103.24
237622CE	57BYGH802	6	Unipolar	4.8	1.8	3.2	1500	2.9	—	8157	1.86	0.20	0.25	0.83	2.24	2.20	1.54	37.69	33.95	30.55
237606CE	57BYGH001	6	Unipolar	5	1.8	5	1000	—	—	3976	1.86	0.20	0.25	0.83	2.24	1.61	1.10	32.49	29.25	26.35
237825CE	25BY4801	7	Unipolar	5	7.5	10	500	—	45	110	1.38	0.14	0.08	0.35	0.98	0.56	0.07	5.95	4.95	4.43
237673CE	35BY48B06	1	Unipolar	5	7.5	10	500	65	65	250	1.65	0.13	0.08	0.45	1.38	0.59	0.15	6.49	5.85	5.25
237770CE	20BY20H01	7	Unipolar	5	18	10	500	—	18	75	0.98	0.09	0.06	0.34	0.79	0.71	0.05	5.59	5.09	4.55
232870CE	57BYG070	4	Unipolar	5.4	1.8	3.6	1500	6	977	8974	2.65	0.20	0.25	0.80	2.20	2.20	2.00	49.95	44.96	39.80
237631CE	57BYGH803	6	Unipolar	6.3	1.8	4.2	1500	—	—	14276	1.86	0.20	0.25	0.83	2.24	2.99	2.43	64.59	58.15	52.35
172558CE	42BYG014	2	Unipolar	8.5	1.8	19	450	13	150	1300	1.22	0.50	0.20	0.87	1.67	1.34	0.50	11.29	10.74	10.19
237711CE	42BY48H06	8	Unipolar	9	7.5	20	450	18.5	130	800	1.95	0.14	0.12	0.39	1.65	0.87	0.30	7.89	7.09	6.39
237788CE	25BY2402	7	Unipolar	9	15	50	180	14	48	100	1.26	0.13	0.08	0.35	0.98	0.59	0.08	5.99	5.09	3.82
237649CE	25BY2403	7	Unipolar	9	15	20	450	4.5	48	130	1.38	0.14	0.08	0.33	0.98	0.56	0.07	4.69	3.99	3.22
172646CE	42BYG205	4	Unipolar	9.6	1.8	75	480	15	220	2300	1.73	0.10	0.20	0.90	1.70	1.40	0.50	17.95	16.19	14.55
224021CE	42BYG016	2	Unipolar	12	1.8	75	160	40	150	900	1.73	0.10	0.20	0.70	1.70	1.30	0.50	16.95	15.25	13.75
155432CE	42BYG228	2	Unipolar	12	1.8	30	400	23	220	2000	1.73	0.10	0.20	0.90	1.70	1.50	0.50	17.95	16.29	14.59
237542CE	57BYG007	4	Unipolar	12	1.8	32	380	30	—	2957	1.86	0.20	0.25	0.83	2.29	1.61	1.00	25.95	22.06	17.08
238537CE	42BYGH404	5	Unipolar	12	1.8	30	400	25	250	3200	1.22	0.10	0.20	0.95	1.67	1.89	0.60	19.95	17.95	16.15
162026CE	57BYG084	4	Unipolar	12	1.8	20	600	22	725	6000	2.65	0.20	0.25	1.00	2.20	2.00	1.30	26.95	24.29	21.85
237972CE	28BYJ01A1	7	Unipolar	12	5.625	300	40	—	300	552	1.38	0.17	0.20	0.33	1.10	0.75	0.09	4.69	4.19	3.69
237981CE	28BYJ01C	7	Unipolar	12	5.625	300	40	—	350	552	1.38	0.14	0.12	0.20	1.10	0.78	0.10	3.99	3.77	3.55
237753CE	28BYJ012A	7	Unipolar	12	5.625	200	60	—	350	736	1.38	0.16	0.12	0.24	1.10	0.75	0.08	3.99	3.59	3.23
237745CE	28BYJ01A	7	Unipolar	12	5.625	200	60	—	350	736	1.38	0.16	0.12	0.24	1.10	0.75	0.10	3.99	3.59	3.23
237833CE	25BY4803	7	Unipolar	12	7.5	50	240	16	45	110	1.34	0.09	0.08	0.27	0.98	0.59	0.07	5.99	5.09	3.93
237681CE	35BY48B069	1	Unipolar	12	7.5	50	270	28	65	300	1.65	0.13	0.08	0.26	1.42	0.85	0.15	6.49	5.85	5.64
237892CE	42BY48B03	8	Unipolar	12	7.5	57	210	18	105	300	2.28	0.08	0.12	0.30	1.65	0.58	0.21	8.99	7.64	6.16
238158CE	35BY48BH10	1	Unipolar	12	7.5	42	286	25	90	400	1.65	0.13	0.08	0.26	1.38	0.85	0.19	6.19	5.26	4.73
237930CE	42BY48B14	8	Unipolar	12	7.5	50	240	—	145	450	1.95	0.14	0.12	0.39	1.65	0.59	0.22	9.95	8.46	6.34
213321CE	35BY48-27	1	Unipolar	12	7.5	15	800	68	90	460	1.96	0.13	0.08	0.25	1.38	0.83	0.20	5.39	4.91	4.46
238131CE	35BY48BH05	1	Unipolar	12	7.5	15	800	10	90	460	1.65	0.13	0.08	0.26	1.38	0.85	0.19	6.19	5.26	4.73
237884CE	42BY48B02	8	Unipolar	12	7.5	40	300	28	130	500	N/A	N/A	0.12	0.30	1.65	0.57	0.21	11.99	10.19	7.64
238043CE	30BYJ05-PH	7	Unipolar	12	7.5	300	40	—	350	552	1.42	0.17	0.20	0.30	1.18	0.69	0.10	4.79	4.29	3.89
237761CE	30BYJ011	7	Unipolar	12	7.5	300	40	—	350	644	1.38	0.18	0.12	0.20	1.18	0.69	0.10	4.19	3.99	3.82

* 395567CE/155459CE: Dual shaft

Stepper Motors (Continued)

DC, gearhead & vibrating motors on pages 140-143
Stepper Motor Controllers on page 139



Bipolar and Unipolar Stepper Motors (Continued)

SALE



Part No.	Cross Ref. No.	Fig. (see pg. 144)	Drive System	Voltage (VDC)	Step Angle	Phase Resis. (Ohms)	Curr. (mA)	Phase Inductance (mH)	Detent Torque (g-cm)	Holding Torque (g-cm)	Mounting Hole Space Diagonal (in.)	Mounting Holes (in.)	Shaft Dia. (in.)	Shaft Length (in.)	Motor Dia. (in.)	Motor Length (in.)	Weight (lbs.)	Pricing		
																		1	10	50
238086CE	35BYJ03	7	Unipolar	12	7.5	400	40	—	450	828	1.65	0.16	0.20	0.33	1.42	0.67	0.12	\$4.95	\$4.21	\$3.99
238035CE	30BYJ03C	7	Unipolar	12	7.5	160	75	—	350	920	1.54	0.17	0.12	0.44	1.42	0.69	0.11	4.29	4.06	3.84
238060CE	35BYJ02	7	Unipolar	12	7.5	200	60	—	400	1104	1.65	0.16	0.20	0.33	1.42	0.67	0.13	4.95	4.21	3.99
238078CE	35BYJ02A	7	Unipolar	12	7.5	200	60	—	400	1104	1.85	0.16	0.20	0.33	1.38	0.69	0.13	4.95	4.21	3.99
238051CE	35BYJ01	7	Unipolar	12	7.5	130	92	—	350	1472	1.65	0.16	0.20	0.33	1.42	0.69	0.12	4.95	4.45	3.99
173180CE	30BYJ02AH*	7	Unipolar	12	7.5	200	60	49.5	400	736	1.42	0.14	0.19	0.36	1.18	0.68	0.10	11.49	9.77	7.32
237657CE	25BY2406	7	Unipolar	12	15	30	400	7.5	48	120	1.26	0.13	0.08	0.35	0.98	0.59	0.07	4.69	3.99	3.22
237956CE	42BY48H05	8	Unipolar	14	7.5	70	200	—	130	450	1.93	0.14	0.12	0.39	1.65	0.87	0.27	7.59	6.45	6.20
237438CE	35BYG007	5	Unipolar	15	1.8	28	400	—	12	70	1.02	0.10	0.20	0.83	1.38	1.10	0.37	13.95	11.86	10.48
237702CE	35BY48BH02	1	Unipolar	16.2	7.5	60	270	50	90	450	1.65	0.13	0.08	0.33	1.38	0.59	0.20	5.99	5.09	4.73
237665CE	25BY2407	7	Unipolar	16.2	15	85	190	19	48	100	1.26	0.16	0.08	0.49	0.98	0.56	0.10	4.29	3.65	3.21
237796CE	25BY2408	7	Unipolar	16.2	15	60	270	16	48	120	1.26	0.17	0.08	0.55	0.98	0.56	0.10	5.99	5.09	3.93
237841CE	25BY4806	7	Unipolar	20	7.5	50	400	16	45	155	1.26	0.13	0.08	0.49	0.98	0.56	0.10	5.99	5.09	3.93
237850CE	25BY4807	7	Unipolar	20	7.5	50	400	16	45	155	1.38	0.14	0.08	0.22	0.98	0.87	0.10	5.99	5.09	3.93
237868CE	25BY4808	7	Unipolar	20	7.5	50	400	16	45	155	1.38	0.14	0.08	0.22	0.98	0.87	0.10	5.99	5.09	3.93
237876CE	25BY4809	7	Unipolar	20	7.5	50	400	16	45	155	1.42	0.35	0.08	0.22	0.98	0.87	0.10	6.95	6.25	5.65
210391CE	STP42N196S	9	Unipolar	24	3.75	110	436	60	60	600	1.95	0.13	0.118	0.42	1.65	0.54	0.18	1.99	1.85	1.68
238115CE	35BY48B08	1	Unipolar	24	7.5	75	320	38	65	270	1.65	0.13	0.08	0.35	1.38	0.59	0.15	6.19	5.68	5.17
238107CE	35BY48B07	1	Unipolar	24	7.5	11	240	70	65	330	1.65	0.13	0.08	0.26	1.38	0.59	0.15	6.19	5.68	5.17
238140CE	35BY48BH07	1	Unipolar	24	7.5	110	240	70	90	350	1.65	0.13	0.08	0.26	1.38	0.85	0.20	6.19	5.26	4.73
237690CE	35BY48BH01	1	Unipolar	24	7.5	165	145	85	90	400	1.65	0.13	0.08	0.33	1.38	0.59	0.19	5.99	5.09	4.73
237921CE	42BY48B08	8	Unipolar	24	7.5	75	320	33	145	600	1.95	0.14	0.12	0.39	1.65	0.59	0.20	7.59	6.45	6.20
237905CE	42BY48B04	8	Unipolar	24	7.5	110	220	53	145	630	1.95	0.14	0.12	0.45	1.65	0.59	0.20	7.59	6.45	5.84
237913CE	42BY48B04M	8	Unipolar	24	7.5	120	200	57	145	630	1.95	0.09	0.12	0.45	1.65	0.59	0.22	7.59	6.45	6.20
237948CE	42BY48H02	8	Unipolar	24	7.5	48	500	—	130	630	1.95	0.14	0.12	0.39	1.65	0.87	0.30	7.59	6.45	6.20
237729CE	42BY48H07	8	Unipolar	24	7.5	85	280	78	130	780	1.95	0.14	0.12	0.39	1.65	0.87	0.27	7.89	6.71	6.20
237809CE	25BY2409	7	Unipolar	24	15	118	200	22	48	100	1.37	0.13	0.08	0.37	0.98	0.59	0.10	6.49	5.52	4.14
238123CE	35BY48BH03	1	Unipolar	28.8	7.5	115	278	85	90	450	1.65	0.13	0.08	0.26	1.38	0.85	0.19	6.19	5.26	4.73
237585CE	110BYG450C	4	Unipolar	80-200	0.9/1.8	0.18	6000	2	3060	45,900	5.0	0.33	0.63	2.13	4.33	5.10	8.40	179.95	152.96	114.72

Other Manufacturers — Great Deals

Part No.	Cross Ref. No.	Drive System	Volt. (VDC)	Step Angle	Phase Resis. (Ohms)	Curr. (mA)	Phase Inductance (mH)	Detent Torque (g-cm)	Holding Torque (g-cm)	Mounting Hole Space Diagonal (in.)	Mounting Holes (in.)	Shaft Dia. (in.)	Shaft Length (in.)	Motor Dia. (in.)	Motor Length (in.)	Pricing		
																1	10	50
117954CE	LB82773-M1	Bipolar	5	7.5	6	800	7	100	1080	2.60	1.95	0.250	0.75	2.25	1.00	\$4.29	\$3.86	\$2.89
163395CE	5017-935 ¹	Bipolar	8.4	0.9	30	280	25	36	791	1.73	0.15	0.155	0.29	1.64	1.20	4.95	4.21	3.16
105881CE	SM4203 ²	Bipolar	12	3.6	25	480	31	80	600	1.73	0.11	0.197	0.43	1.66	1.31	6.49	5.85	5.29
171601CE	PF35T48L4 ³	Unipolar	7	7.5	20	350	9	40	680	1.68	0.14	0.078	0.47	1.38	0.58	4.99	4.24	3.18
238019CE	30BYJ01C1	Unipolar	12	7.5	300	40	—	350	644	1.54	0.17	0.12	0.20	1.18	0.68	4.29	4.06	3.84

* 173180CE: Gear ratio 85.25:1 ¹ 163395CE: Dual shaft ² 105881CE: P/N 25216CE (IC, MC3479P, pg 36) bi-phase stepper motor driver can be used to operate; Use P/N 161998CE for shaft coupler, see pg 282
³ 171601CE: Dual shaft w/ 10 tooth gear

Servo Motors

High-Efficiency Robotic Servo

Excellent power-to-weight ratio for robotic projects.

- Supply voltage: 4.8-6 volts
- Speed: 16 seconds to 60°
- Torque: 49 oz.-in. (3500 g-cm) @ 4.8V
- Can be operated by P/N 151001CE, pg 139



Part No.	Description	Size	1	10
157067CE	Robotic servo	0.8"W x 1.4"D x 1.6"H	\$19.95	\$17.95

Giant Robotic Ball-Bearing Servo

Extremely powerful! Perfect for large robotic projects where power is a must.

- Supply voltage: 4.8-6 volts • Speed: 19 seconds to 60°
- Torque: 161 oz.-in. (11,500 g-cm) @ 4.8V
- Can be operated by P/N 151001CE, pg 139



Part No.	Description	Power Supply	1	10
166351CE	Giant robotic servo	4.8-6 volts	\$49.95	\$44.95

Committed to You

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Scott Edwards Electronics, Inc.

Serial Servo Controller Module

- Controls 8 pulse-proportional servos
- Receives serially at 2400 or 9600 baud
- Module is addressable, allowing two units to share the same line to control a total of 16 servos
- Connections to serial input can be established using a modular jack (P/N 115553CE, pg 99) or modular adapter from DB9 to RJ11 (P/N 114737CE, pg 98)
- Size (PCB): 1.9"L x 1.4"W • One-year warranty



Part No.	Description	1	10
151001CE	Mini SSC II	\$43.95	\$41.79

32-Bit Stepper Motor Controller

One Axis

- Controls one bipolar stepper motor with 32-bit absolute position
- Interface to PC through RS232 or RS485 @ 2400-19,200bps
- Full, half or wave step modes
- Multiple boards may share same serial line (RS485 only)
- 2 channel general purpose 8-bit A/D input port for reading 0 to 5V
- 4-bit digital input for home limits
- Addressable up to 255 boards
- Size: 4.4"L x 2.3"H
- Weight: 0.7 lbs.



DPONTECH

Includes: Manual and sample code software

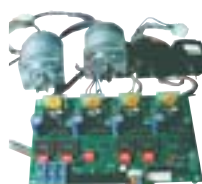
Part No.	Description	1	10
153621CE	32-bit controller	\$158.95	\$150.99

See our extensive motor selection on pages 137-138 & 140-143.



Multi-Stepper Motor Control Board

- Simultaneous/independent control of up to 16 stepper motors through a single serial port
- High-speed serial communication interface 9.6kbps-230.4kbps
- 11 analog channels, A/D converter, 12-bit resolution
- 24-bit position register; can be read while motor is moving
- Linear acceleration/deceleration capability up to 8500 step/sec.
- Full step (monophasic and biphasic), half step and external driver modes
- Current-mode coil driver up to 2A/45V
- Automatic power down prevents motor overheating
- External driver control outputs: step, direction and power control
- 26 digital I/O and two SPI interfaces for control of external devices
- 32 bits DDL interface for Windows® 9X, NT & Linux
- Internal FIFO RAM (128 bytes) allows customized motion profiles
- Size: 7.7"L x 5.0"W x 1.0"H • Weight: 0.7 lbs.

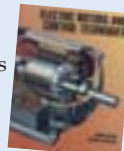


Shown w/ motors – not included

Part No.	Description	1	10
168727CE	Stepper motor control board	\$399.95	\$379.95

Electric Motors and Control Techniques

TAB Publishing Explains how different types of motors operate, and how electronic control devices can be used to improve efficiency in a wide range of applications. (294 pages, 1994)



- Size: 7.3" x 9.2" • Weight: 1.1 lbs.

Part No.	Description	Price
137162CE	Electric Motors & Control	\$24.95

Sport232-ST One Axis Stepper Motor Controller and DAC Board

- Full, half steps (monophasic, bi-phasic)
- Shaft encoder capabilities for close loop applications
- 4-channels with signal conditioning 0 to 2.5V, 0 to 10V
- 8 Digital I/O and 8 analog inputs with 12-bit resolution
- Linear acceleration/deceleration, profile movements through 128 bytes internal FIFO
- Home, limit CW/CCW, abort, pulse and direction output signals
- Free 32-bit DLL for Windows 9x/NT/2000/XP, Linux and Labview

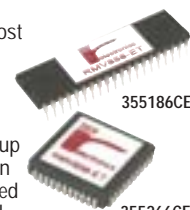


Part No.	Description	1	10
355047CE	Sport232-ST	\$147.25	\$137.75



RMV856-ET Stepped Motor Controller

- CMOS, +5V device combines high performance with low cost
- Capable of generating step rates from 16 steps/sec to 8500 steps/sec using pulse and direction signals
- Internal step register counts up to 16 million steps per motion
- 8 Digital I/Os can be addressed individually by one command
- External programmable events: trigger waits, loops, program branches and stepping motions
- Supports programmable start rate, accel/decel, slew rate and absolute or relative control position
- Programmable stall detection feature controls positioning error • Internal or external direction control and separate limit switch for interfacing analog to digital or digital to analog converter



Part No.	Product No.	Package	1	10	50
355186CE	RMV856-ET	DIP-40	\$48.45	\$44.05	\$40.00
355266CE	RMV856-ET	PLCC-44	\$48.45	\$44.05	\$40.00

KAE

Industrial Motion Controllers for Brush, Brushless and Stepper Motors

All JR Kerr Automation Engineering controllers include integrated power amplifiers. Up to 32 controllers can be daisy-chained from a single full-duplex RS485 port. For RS-232 to RS-485 adapter see P / N 184971CE (below).



184989CE/323942CE: PIC-SERVO motor control board

- For brush-type DC motors with 2 or 3 channel incremental encoders
- P.I.D. Servo control, trapezoidal position profiling, velocity mode, 32-bit resolution
- Integrated 12 to 48VDC supply power amplifier @ 3A continuous, 6A peak
- Limit switch inputs, general purpose analog input, PWM, DIR output for use with external amps
- P/N 323942CE RS485 serial interface allows up to 32 PIC-SERVO controllers to be controlled from a single serial port

185009CE/323951CE: PIC-SERVO 3PH motor control board for brush or brushless motors

- For 3-phase brushless motors with hall effect sensors or conventional DC brush-type motors
- High current amplifier: 7A continuous, 10A peak, 12 to 48VDC supply
- Same features as 184989CE above but with support for linear & circular interpolation using the PIC-SERVO CMC chipset
- P/N 323951CE Amplifier capable of driving 6A continuously @ up to 48VDC

Part No.	Description	Size (L" x W" x H")	1	10
184989CE	PIC-SERVO	3.1 x 2.1 x 0.9	\$179.95	\$161.95
323942CE	KAE-TOVIO	3.1 x 2.1 x 0.9	\$149.95	\$134.95
185009CE	KAE-TOV5-BD3-PHV1	3.1 x 3.1 x 1.0	\$239.95	\$215.95
323951CE	KAE-TOVIO	3.1 x 3.1 x 0.9	\$214.95	\$194.95

184971CE: Z232-485 serial port adapter

- Lets you operate the controllers above from any standard RS-232 port

184997CE: PIC-STEP motor control board

- Integrated indexer and driver for 2 or 4 phase stepper motors
- Full/half step bipolar chopper drive, 2A per phase, 7.5 to 46VDC supply
- Trapezoidal position profiling, velocity mode, up to 50,000 steps per second
- Limit switch inputs, general purpose outputs, step/dir outputs for use with external drivers

184962CE: PIC-I/O multifunction I/O control board

- 12 I/O bits software configurable as inputs or outputs
- One counter input
- Three 8-bit analog inputs, two PWM outputs with high current drivers

184954CE: Simple sequencer stand-alone controller

- Programmable master controller for building stand-alone systems with the controllers above
- Plugs into a socket on the Z232-485 board (P/N 184971CE, above)

Part No.	Description	Size (L" x W" x H")	1	10
184971CE	Z232-485	3.1 x 2.1 x 0.5	\$59.95	\$53.95
184997CE	PIC-STEP	3.1 x 2.1 x 0.9	\$159.95	\$143.95
184962CE	PIC-I/O	3.1 x 2.1 x 0.6	SALE 89.95	85.45
184954CE	Simple sequencer	2.1 x 1.0 x 0.4	\$59.95	\$51.08

1.5-112VDC Motors

Jameco has a broad selection of DC Motors available for immediate delivery! In fact, we're the only place in the country where you can buy so many types off-the-shelf. And because of our broad selection, major custom-design motor manufacturers send their customers to us! Be sure to check out all the products below.

Typical applications:

- RC cars and airplanes
- Motorized toys
- Tire pumps
- Arcade games
- Vacuum cleaners
- Paper shredders
- Vending machines
- Hair removers
- Cordless power tools
- Office automation products
- Blow dryers

Volume buyers
save big with
100 piece orders!

Quantity SAVE

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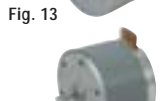
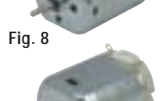
Part Number	Product No.	Fig.	Nominal Voltage (VDC)	Voltage Range (VDC)	@ Maximum Efficiency			Efficiency	Terminal Type	Shaft Dia. (")	Shaft Length (")	Body Size (D" x L")	Pricing		
					Current (Amps)	Speed (RPM)	Torque (g-cm)						1	10	100
231917CE	FE-260-2670	5	1.5	1.5-3	0.66	3700	10.5	42.9	Solder	0.078	0.314	0.937 x 1.063	\$1.19	\$1.01	\$1.76
231861CE	UE-260-2850	6	1.5	1.5-3	1.15	4260	13.4	34.9	Solder	0.078	0.314	0.944 x 1.063	1.29	1.10	.82
231853CE	UE-260-2838	6	1.5	1.5-2.4	1.57	5600	15.5	39.0	Solder	0.078	0.314	0.944 x 1.063	1.49	1.27	.95
232135CE	FF-050S-13130	3	2	2-4	0.11	3000	3	42.0	Solder	0.059	0.433	0.610 x 1.059	2.99	2.69	2.42
231909CE	FE-260-18130	5	3	1.5-4.5	0.36	4780	10.3	49.6	Solder	0.078	0.314	0.937 x 1.063	1.19	1.01	.76
231888CE	UE-260-20120	6	3	1.5-4.5	0.45	4780	12.9	49.8	Solder	0.078	0.314	0.944 x 1.063	1.49	1.27	.95
231790CE	PC-130F-18120	7	3	3-4.5	0.51	6260	8.1	35.6	Solder	0.078	0.377	0.803 x 0.984	2.49	2.12	1.59
231870CE	UE-260-2290	6	3	1.5-4.5	0.62	6400	12.9	47.1	Solder	0.078	0.314	0.944 x 1.063	1.49	1.27	.95
231925CE	FE-260-2295	5	3	1.5-4.5	0.63	6850	14	53.9	Solder	0.078	0.314	0.937 x 1.063	1.19	1.01	.76
232071CE	FC-280-2485	1	4.5	4.5-7.2	0.88	7820	26	52.7	Solder	0.078	0.472	0.944 x 1.200	2.09	1.78	1.33
232080CE	FC-280-2865	1	4.5	4.5-6	1.38	9970	30.4	50.1	Solder	0.078	0.472	0.944 x 1.200	2.09	1.88	1.69
231765CE	PC-130SF-15160	7	4.8	3-9	0.42	4960	16.6	42.6	Solder	0.078	0.377	0.803 x 0.984	2.49	2.12	1.59
231984CE	UC-260-14275	6	6	6-12	0.21	4150	13.1	45.8	Solder	0.078	0.314	0.944 x 1.063	1.79	1.52	1.14
231829CE	PC-280-16210	8	6	3-12	0.28	4260	18	47.6	Solder	0.078	0.433	0.944 x 1.200	2.99	2.54	1.91
231781CE	PC-130F-12240	7	6	3-9	0.25	6800	7	33.4	Solder	0.078	0.377	0.803 x 0.984	2.49	2.24	2.02
231992CE	UC-260-18160	6	6	3-9	0.57	7460	22.1	49.9	Solder	0.078	0.314	0.944 x 1.063	1.79	1.52	1.14
231811CE	PC-280-20125	8	6	3-9	0.57	7560	21.1	48.6	Solder	0.078	0.433	0.944 x 1.200	2.99	2.54	1.91
232063CE	FC-280-20120	1	6	4.5-9	0.60	7800	24.1	53.5	Solder	0.078	0.472	0.944 x 1.200	2.09	1.78	1.33
232143CE	FF-050S-11170	3	7	1.5-9	0.17	8500	7	51.3	Solder	0.059	0.433	0.610 x 1.059	2.99	2.54	1.91
232151CE	FF-050S-09250	3	8	5-11.5	0.11	6300	7	51.4	Solder	0.059	0.433	0.610 x 1.059	2.99	2.54	1.91
231802CE	PC-130F-10370	7	9	6-12	0.15	6410	8.5	43.9	Solder	0.078	0.377	0.803 x 0.984	2.49	2.12	1.59
231933CE	UC-280S-10450	9	12	12-24	0.11	2850	21.3	46.5	Solder	0.078	0.433	0.944 x 1.200	2.99	2.54	1.91
232012CE	MD5-12160	10	12	12-24	0.30	4000	34.3	39.1	Solder	0.091	0.622	1.082 x 1.279	2.25	1.91	1.43
231968CE	UC-260-09530	6	12	12-24	0.12	4030	12.5	36.7	Solder	0.078	0.314	0.944 x 1.063	1.79	1.52	1.14
231845CE	PC-280-10420	8	12	6-24	0.13	4270	14.5	43.6	Solder	0.078	0.433	0.944 x 1.200	2.99	2.54	1.91
231731CE	PC-130SF-09480	7	12	6-24	0.11	4800	12.3	49.6	Solder	0.078	0.377	0.803 x 0.984	2.09	1.89	1.69
231749CE	PC-130SF-09400	7	12	6-24	0.15	5130	14.3	42.5	Solder	0.078	0.377	0.803 x 0.984	2.49	2.12	1.59
231896CE	FE-260-08450	5	12	6-12	0.11	5560	10.3	46.6	Solder	0.078	0.314	0.937 x 1.063	1.19	1.01	.76
231773CE	PC-130F-09490	7	12	6-18	0.51	6260	8.1	39.1	Solder	0.078	0.377	0.803 x 0.984	2.49	2.12	1.59
232160CE	FF-050S-08220	3	12	9-18	0.09	6270	5	31.5	Solder	0.059	0.433	0.610 x 1.059	2.99	2.54	1.91
231757CE	PC-130SF-10315	7	12	6-18	0.25	6350	20	44.6	Solder	0.078	0.377	0.803 x 0.984	2.49	2.12	1.59
232055CE	FC-280-12280	1	12	6-12	0.26	6840	21.4	48.6	Solder	0.078	0.472	0.944 x 1.200	2.09	1.78	1.33
231976CE	UC-260-12335	6	12	6-12	0.24	7050	19.5	50.0	Solder	0.078	0.314	0.944 x 1.063	1.79	1.52	1.14
231837CE	PC-280-15265	8	12	6-12	0.30	7230	25	52.5	Solder	0.078	0.433	0.944 x 1.200	2.99	2.54	1.91
232004CE	UC-280S-19160	9	12	6-12	0.57	9000	46.6	63.4	Solder	0.078	0.433	0.944 x 1.200	2.55	2.17	1.63
232021CE	MD5-1885	10	12	6-18	0.74	9820	53.5	60.7	Solder	0.091	0.622	1.082 x 1.279	2.25	1.91	1.43
231950CE	UC-280S-20145	9	12	6-12	0.75	10000	55	64.0	Solder	0.078	0.433	0.944 x 1.200	2.55	2.17	1.63
232039CE	MD5-2070	10	12	6-12	1.20	12150	62.2	54.1	Solder	0.091	0.622	1.082 x 1.279	2.25	1.91	1.43
232127CE	MD5-2554AS-AA	2	12	6-12	1.70	17000	72.9	62.4	Quick Connect	0.091	0.512	1.083 x 1.279	4.29	3.65	2.73
232119CE	MD5-2450AS-AA	2	12	6-12	2.00	17200	77.5	55.9	Quick Connect	0.091	0.512	1.083 x 1.279	4.29	3.65	2.73
232047CE	MD5-2445	10	12	6-12	2.05	19850	79.7	66.0	Solder	0.091	0.622	1.082 x 1.279	2.25	1.91	1.43
231941CE	UC-280S-12285	9	24	12-24	0.39	10300	54.4	62.4	Solder	0.078	0.433	0.944 x 1.200	2.99	2.54	1.91
232098CE	MD5-15120AS-AA	2	24	12-24	0.70	15100	66.7	61.5	Quick Connect	0.091	0.512	1.083 x 1.279	4.29	3.65	2.73
232101CE	MD5-1980AS-AA	2	24	12-24	1.43	22600	88.5	60.9	Solder	0.091	0.512	1.083 x 1.279	4.29	3.65	2.73

JAMECO ReliaPro (Mabuchi-Type)

238465CE	RF-310TA-11400 (CCW)	11	2.5	1-6	0.06	2190	3.3	—	Solder	0.078	0.369	0.962 x 0.712	\$5.35 \$2.49	\$2.25	\$1.99
238457CE	RF-300PA-11400 (CW)	12	3	1-3	0.07	2400	4.3	56.4	Wires	0.078	0.415	0.960 x 0.504	4.35	3.70	2.77
238511CE	RF-500TB-12560	13	6	1.5-12	0.08	2180	11.6	50.6	Solder	0.078	0.385	1.259 x 0.767	4.49	3.82	2.86
238431CE	EG-530AD-6B (CCW)	14	6	4.2-7.5	0.13	2400	8	—	Solder	0.078	0.307	1.377 x 0.984	4.69	3.99	2.99
238422CE	EG-530AD-6F (CW)	14	6	4.2-7.5	0.13	2400	8	—	Solder	0.078	0.307	1.377 x 0.984	4.69	3.99	2.99
238449CE	EG-530AD-9B (CCW)	14	9	6-11	0.09	2400	8	—	Solder	0.078	0.307	1.377 x 0.984	4.69	3.99	2.99
238490CE	EG-530YD-9B (CCW)	14	9	6.3-11.7	.13/.14	2000/4000	10	—	Solder	0.078	0.307	1.377 x 0.984	6.85	5.82	4.37
238502CE	EG-530KD-2B (CCW)	14	12	8.4-15.6	0.08	1600	10	—	Solder	0.078	0.307	1.377 x 0.984	5.39	4.58	3.44
238473CE	RF-370CA-15370	15	12	3-12	0.07	1970	16	61.4	Solder	0.078	0.346	0.960 x 1.213	5.55	4.72	3.54
238414CE	EG-530AD-2B (CW)	14	12	8.4-15	0.07	2400	60	—	Solder	0.078	0.307	1.377 x 0.953	4.49	3.82	2.86
238406CE	EG-530AD-2F (CCW)	14	12	8.4-15	0.07	2400	60	—	Solder	0.078	0.307	1.377 x 0.953	5.39	4.58	3.44
238481CE	EG-530YD-2B (CCW)	14	12	8.4-15	.13/.14	2000/4000	10	—	Solder	0.078	0.322	1.303 x 0.997	6.29	5.65	5.09

JAMECO ReliaPro

237391CE	29SYT003	4	13.5	13.5	13	18000	509	—	Quick Connect	0.125	1.003	1.141 x 2.283	\$5.95	\$5.35	\$4.85
237382CE	29SYT002	4	24	24	0.93	2680	178	—	Wire	0.100	0.334	0.787 x 1.89	7.19	6.47	5.82
237403CE	40SYT002	16	26	26	1.5	3000	815	—	Quick Connect	0.196	1.021	1.57 x 3.85	25.95	23.35	20.99
237374CE	29SYT001	4	112	112	0.93	2680	178	—	Wire	0.100	0.334	1.15 x 1.89	7.19	6.11	4.58





Quantity SAVE

1.2VDC-24VDC Motors

star motor



Part No.	Product Number	Manufacturer	Nominal Voltage (VDC)	Voltage Range (VDC)	@ Maximum Efficiency			Efficiency	Terminal Type	Shaft Dia. (in.)	Shaft Length (in.)	Size (D" x L")	Pricing		
					Current (Amps)	Speed (RPM)	Torque (g-cm)						1	10	100
311976CE	20519-34442	Johnson Electric	1.2	—	0.363	4692	130.4	55	0.08*/solder	0.08	0.33	1.00 x 1.20	\$1.49	\$1.27	\$0.95
295849CE	RF-310T-11400	Mabuchi Motor	2.5	1-6	0.060	2190	3.3	—	0.06*/solder	0.08	0.89	0.96 x 0.71	1.79	1.52	1.14
154915CE	ST-130-12240 ¹	Star Motor	3	1.5-3	0.170	3588	7.4	55	0.09*/solder	0.08	0.37	0.79 x 1.13	1.09	.93	.69
154923CE	ST-130-22770 ¹	Star Motor	3	1.5-3	1.150	12500	10.3	40	0.09*/solder	0.08	0.37	0.79 x 1.13	.99	.84	.63
211246CE	RC-260RA-2670	Mabuchi Motor	4.5	3-4.5	1.430	15290	21.8	53	0.11*/solder	0.08	0.28	0.93 x 1.06	1.49	1.27	.95
388851CE	RF-500TB-14415	Mabuchi Motor	5	1.5-9	0.120	2540	12.6	—	0.07*/solder	0.07	0.34	1.26 x 0.97	3.99	3.59	3.23
267231CE	FRF-510-12620	Telco	6	3-12	0.030	2700	10.0	—	Wire w/ conn.	0.08	0.31	1.25 x 0.86	.99	.89	.79
177498CE	RC280RA-2485	Mabuchi Motor	7.2	3-14	1.180	14260	33.3	57	11*/solder	0.08	0.43	0.95 x 1.20	1.75	1.49	1.12
174692CE	21226-384221	Johnson Electric	12	9-14	0.015	3000	—	—	0.11*/solder	0.08	0.69	0.97 x 1.19	2.49	2.15	1.59
206949CE	QJT360S14280	Nichibo	12	9-30	0.350	4930	44.5	52	0.11*/solder	0.09	0.45	1.09 x 1.30	1.69	1.45	1.09
153656CE	RS550PF ²	Mabuchi Motor	12	6-15	1.400	6500	44.1	—	0.15*/solder	0.13	0.66	1.45 x 2.25	3.29	2.99	2.69
267291CE	SUN-555A-LMRK	Telco	24	—	0.150	4100	84	—	Wire w/ conn.	0.13	0.40	1.45 x 2.25	2.99	2.54	1.91

¹ 154915CE/154923CE: Use bushing P/N 162392CE, pg 282

² Manufacturer may vary



6VDC and 12VDC Reversible Gear Head Motors

- Solder-type terminal
- High torque construction
- Oil bearing design for long service life
- Insulation resistance: 10MΩ
- Dielectric strength: 300VDC



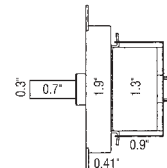
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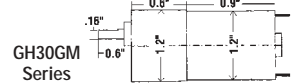
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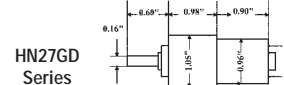
253227CE



32GM Series



GH30GM Series



HN27GD Series

32GM Series

Part No.	Cross Ref. No.	Rated Voltage (VDC)	Current (mA)	Speed (RPM)	Torque (g-cm)	Gear Ratio	Gear Case Size Dia. x Height (in.)	Motor Size Dia. x Length (in.)	Shaft Size Dia. x Length (in.)	Pricing		
										1	10	50
253403CE	32-009	6	64	2.7	2500	450:1	1.9 x 0.41	1.3 x 0.90	0.3 x 0.7	\$17.95	\$16.15	\$14.55
253391CE	32-008	6	60	3	2000	400:1	1.9 x 0.41	1.3 x 0.90	0.3 x 0.7	17.95	16.15	14.55
253382CE	32-007	6	57	3.2	1800	377:1	1.9 x 0.41	1.3 x 0.90	0.3 x 0.7	17.95	16.15	14.55
253374CE	32-006	6	51	4	1680	300:1	1.9 x 0.41	1.3 x 0.90	0.3 x 0.7	17.95	16.15	14.55
253340CE	32-005	6	48	5	1600	240:1	1.9 x 0.41	1.3 x 0.90	0.3 x 0.7	17.95	16.15	14.55
253323CE	32-004	6	44	6	1500	200:1	1.9 x 0.41	1.3 x 0.90	0.3 x 0.7	17.95	16.15	14.55
253315CE	32-003	6	40	6.3	1350	190:1	1.9 x 0.41	1.3 x 0.90	0.3 x 0.7	17.95	16.15	14.55
253307CE	32-002	6	38	8	1200	150:1	1.9 x 0.41	1.3 x 0.90	0.3 x 0.7	17.95	16.15	14.55
253227CE	32-001	6	35	24	450	50:1	1.9 x 0.41	1.3 x 0.90	0.3 x 0.7	17.95	16.15	14.55

HN27GD Series

Part No.	Cross Ref. No.	Rated Voltage (VDC)	Operating Range (VDC)	Current (mA)	Speed (RPM)	Torque (g-cm)	Gear Ratio	Gear Case Size Dia. x Length (in.)	Motor Size Dia. x Length (in.)	Shaft Size Dia. x Length (in.)	Pricing		
											1	10	50
167038CE	GH12-0953Y	12	4.5 - 24	90	9	1200	188:1	1.0 x 0.9	1.1 x 1.0	.16 x .60	\$16.49	\$14.85	\$13.39
167046CE	GH12-1828Y	12	4.5 - 24	195	31	1300	90:1	1.1 x 1.3	1.1 x 0.8	.16 x .60	21.95	19.79	17.79

GH30GM Series

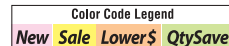
Part No.	Cross Ref. No.	Rated Voltage (VDC)	Operating Range (VDC)	Current (mA)	Speed (RPM)	Torque (g-cm)	Gear Ratio	Gear Case Size Dia. x Length (in.)	Motor Size Dia. x Length (in.)	Shaft Size Dia. x Length (in.)	1	10	50
170641CE	GH12-1828Y-10	12	6.0 - 24	105	8	3500	332:1	1.2 x 1.2	1.2 x 0.9	.16 x .70	\$23.95	\$20.36	\$15.27
153437CE	GH12-1045Y	12	3.0 - 12	90	7	800	200:1	0.9 x 1.0	1.1 x 0.6	.16 x .70	18.95	17.09	15.35
159417CE	GH12-1921Y	12	4.5 - 12	200	35	2000	132:1	1.2 x 1.2	1.2 x 0.9	.16 x .70	21.95	19.79	17.79
162190CE	GH12-1324Y225	12	4.5 - 12	145	176	300	30:1	1.0 x 0.9	1.1 x 0.6	.16 x .70	16.95	15.25	13.75



Jameco's Got the Docs

We offer free technical documents for most of the products we carry. Find them easily on the product specification pages at www.Jameco.com.

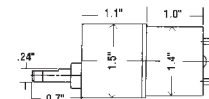
DC Gear Head and Vibrating Motors



12VDC and 24VDC Reversible Gear Head Motors

GH35GM Series

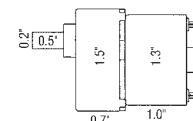
Part No.	Cross Ref. No.	Rated Voltage (VDC)	Operating Range (VDC)	@ Maximum Efficiency			Gear Ratio	Gear Case Size Dia. x Length (in.)	Motor Size Dia. x Length (in.)	Shaft Size Dia. x Length (in.)	Pricing		
				Current (mA)	Speed (RPM)	Torque (g-cm)					1	10	50
155011CE	GH12-1926	12	4.5 - 12	250	2	6000	3000:1	1.3 x 0.9	1.5 x 1.1	.23 x .90	\$21.95	\$19.79	\$17.79
155820CE	GH12-1830Y-P	12	4.5 - 12	220	4.5	4500	1000:1	1.3 x 0.9	1.5 x 1.0	.23 x .90	21.95	19.79	17.79
155838CE	GH12-1641T-L	12	3.0 - 12	250	15	3000	270:1	1.3 x 0.9	1.5 x 0.8	.23 x .90	23.95	21.59	19.45
152910CE	GH12-1926Y	12	4.5 - 12	172	35	2370	100:1	1.3 x 1.0	1.5 x 0.7	.24 x .90	21.95	19.75	17.75
151440CE	GH12-1632TI	12	4.5 - 12	275	57	2200	100:1	1.3 x 0.9	1.5 x 0.7	.23 x .90	21.95	18.55	16.69
155854CE	GH12-1641T-F	12	3.0 - 12	250	71	1000	60:1	1.3 x 0.9	1.4 x 0.9	.23 x .90	21.95	19.79	17.79
155862CE	GH12-1926Y-F	12	4.5 - 12	300	70	1000	60:1	1.3 x 0.9	1.4 x 0.9	.23 x .90	21.95	19.79	17.79
161373CE	GH12-1345T	12	4.5 - 12	185	116	650	30:1	1.3 x 0.9	1.5 x 0.7	.23 x .90	23.95	21.59	19.45
161381CE	GH12-1634T	12	4.5 - 12	293	145	850	30:1	1.3 x 0.9	1.4 x 0.7	.23 x .90	21.95	19.79	17.79
164785CE	GH12-1640Y	12	4.5 - 24	120	220	180	10:1	1.3 x 0.9	1.4 x 0.7	.23 x .90	23.95	20.36	15.27
176049CE	GH12-1640Y00	24	12 - 24	340	1.8	6000	3000:1	1.3 x 0.9	1.5 x 1.1	.23 x .90	21.95	18.66	15.52
176031CE	GH24-1640Y06	24	12 - 24	340	50	2000	90:1	1.3 x 0.9	1.4 x 0.7	.23 x .90	21.95	19.79	17.79
176022CE	GH24-1640Y19	24	12 - 24	340	148	1000	30:1	1.3 x 0.9	1.4 x 0.7	.23 x .90	21.95	19.79	17.79



GH35GM Series



155011CE



38GM Series



253446CE

38GM Series

Part No.	Cross Ref. No.	Rated Voltage (VDC)	@ Maximum Efficiency			Gear Ratio	Gear Case Size Dia. x Height (in.)	Motor Size Dia. x Length (in.)	Shaft Size Dia. x Length (in.)	Pricing		
			Current (mA)	Speed (RPM)	Torque (g-cm)					1	10	50
253534CE	38-010	12	97	24	7500	250:1	1.5 x 0.7	1.3 x 1.0	0.2 x 0.5	\$18.95	\$17.09	\$15.35
253526CE	38-009	12	93.5	36	5400	167:1	1.5 x 0.7	1.3 x 1.0	0.2 x 0.5	18.95	17.09	15.35
253518CE	38-008	12	87.5	40	4800	150:1	1.5 x 0.7	1.3 x 1.0	0.2 x 0.5	18.95	17.09	15.35
253500CE	38-007	12	82	60	3200	100:1	1.5 x 0.7	1.3 x 1.0	0.2 x 0.5	18.95	17.09	15.35
253497CE	38-006	12	80	66	2100	90:1	1.5 x 0.7	1.3 x 1.0	0.2 x 0.5	18.95	17.09	15.35
253489CE	38-005	12	76	110	1300	56:1	1.5 x 0.7	1.3 x 1.0	0.2 x 0.5	18.95	17.09	15.35
253471CE	38-004	12	74	120	1100	50:1	1.5 x 0.7	1.3 x 1.0	0.2 x 0.5	18.95	17.09	15.35
253462CE	38-003	12	68	180	800	33:1	1.5 x 0.7	1.3 x 1.0	0.2 x 0.5	18.95	17.09	15.35
253454CE	38-002	12	65	200	700	30:1	1.5 x 0.7	1.3 x 1.0	0.2 x 0.5	18.95	17.09	15.35
253446CE	38-001	12	61.8	600	350	10:1	1.5 x 0.7	1.3 x 1.0	0.2 x 0.5	18.95	17.09	15.35

1.3VDC and 3VDC Vibrating Motors

• Typical applications: cellular phones, pagers and toys

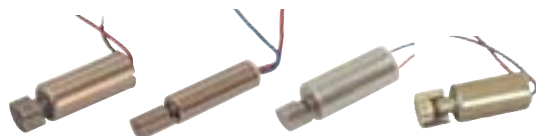


Fig. 1

Fig. 2

Fig. 3

Fig. 4

Fig. 5

Fig. 6

Fig. 7

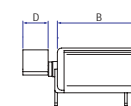


Fig. 6

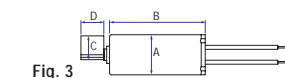


Fig. 3

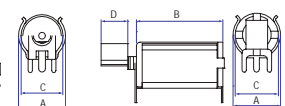


Fig. 5

Part No.	Cross Ref. No.	Fig.	Operating Voltage (VDC @ mA)	Operating Range (VDC)	Rated RPM @ VDC	Lead Length (in.)	Motor Size (A x B) Dia. x L"	Shaft Size (C x D) Dia. x L"	Pricing		
									1	10	100
175062CE	OTL-7AL	1	1.3 @ 62	0.70 - 1.60	7000 @ 1.3	0.7	0.28 x 0.67	0.10 x 0.18	\$5.49	\$4.67	\$3.50
256356CE	72K642	3	1.3 @ 70	1.00 - 1.60	7500 @ 1.3	4.7	0.28 x 0.66	0.18 x 0.22	4.65	4.19	3.75
256372CE	72K631	3	1.3 @ 70	0.80 - 1.60	7500 @ 1.3	1.1	0.28 x 0.66	0.12 x 0.16	4.65	4.19	3.75
175396CE	OTL-4AL	2*	1.3 @ 65	0.70 - 1.60	8500 @ 1.3	0.8	0.16 x 0.55	0.15 x 0.23	6.49	5.52	4.14
256305CE	62K003	3	1.3 @ 80	0.85 - 1.60	8500 @ 1.3	1.0	0.23 x 0.39	0.10 x 0.10	3.29	2.99	2.69
256321CE	62K211	5	1.3 @ 80	0.80 - 1.60	8500 @ 1.3	PC Term	0.27 x 0.48	0.11 x 0.11	3.29	2.99	2.69
256268CE	52K019	6	1.3 @ 85	0.80 - 1.60	10000 @ 1.3	PC Term	0.20 x 0.40	0.10 x 0.07	5.29	4.79	4.29
256145CE	42K036	6	1.3 @ 80	0.85 - 1.60	11000 @ 1.3	PC Term	0.17 x 0.43	0.07 x 0.16	5.95	5.35	4.85
256049CE	42K041	3	1.3 @ 85	0.85 - 1.60	11000 @ 1.3	1.0	0.16 x 0.43	0.07 x 0.17	5.95	5.35	4.85
256241CE	52K011	3	1.3 @ 85	0.80 - 1.60	11000 @ 1.3	1.0	0.20 x 0.39	0.10 x 0.12	5.29	4.79	4.29
256364CE	72K692	3	3.0 @ 60	2.40 - 3.00	6500 @ 3.0	4.7	0.28 x 0.66	0.18 x 0.22	4.65	4.19	3.75
256381CE	72K681	3	3.0 @ 60	2.40 - 3.60	7500 @ 3.0	1.1	0.28 x 0.66	0.12 x 0.16	4.65	4.19	3.75
256313CE	62K053	3	3.0 @ 75	1.60 - 3.60	8500 @ 3.0	1.0	0.23 x 0.39	0.10 x 0.10	3.29	2.99	2.69
256330CE	62K261	5	3.0 @ 75	2.40 - 3.00	8500 @ 3.0	PC Term	0.27 x 0.48	0.11 x 0.11	3.29	2.99	2.69
256250CE	52K061	3	3.0 @ 75	2.40 - 3.00	10000 @ 3.0	1.0	0.20 x 0.39	0.10 x 0.12	5.29	4.79	4.29
256090CE	42K091	3	3.0 @ 80	2.40 - 3.60	11000 @ 3.0	1.0	0.16 x 0.43	0.07 x 0.17	5.95	5.35	4.85

Other Manufacturers — Great Deals

190078CE	6CD-1201WL-00	4*	1.3 @ 80	—	7500 @ 1.3	1.1	0.24 x 0.47	0.10 x 0.22	\$6.55	\$5.57	\$4.18
185228CE	FM31E	7	3.0 @ 45	2.50 - 3.80	4500 @ 3.0	Solder pads	0.55 x 0.13	—	3.85	3.27	2.45

*More details on page 143


Blue Part No. = Limited Quantity Available

Vibrating Motors and AC Gear Motor

JAMECO ReliaPro

1.3VDC 8,500 RPM Vibrating Motor

- Typical applications: cellular phones, pagers, and toys
- Rated RPM: 8,500 @ 1.3VDC
- Direction of rotation: clockwise
- Operating voltage: 1.3V @ 65mA (typical)
- Lead length: 0.75"
- Size: (motor) 0.16"Dia. x 0.55"L (shaft) 0.15"Dia. x 0.23"L



Part No.	Description	1	10	100
175396CE	Vibrating motor	\$6.49	\$5.52	\$4.14

Namiki

1.3VDC 7,500 RPM Vibrating Motor

- Typical applications: cellular phones, pagers and toys
- Rated RPM: 7,500 @ 1.3VDC
- Clock-wise rotation
- 1.1" lead wires
- Operating voltage: 1.3VDC @ 80mA
- Size: (motor) 0.47"L x 0.24"Dia. (shaft) 0.22"L x 0.10"Dia.



Quantity SAVE

Part No.	Description	1	10	100
190078CE	Vibrating motor	\$6.55	\$5.57	\$4.18

120VAC Gear Motor

6.0 RPM - 2.9 Watt

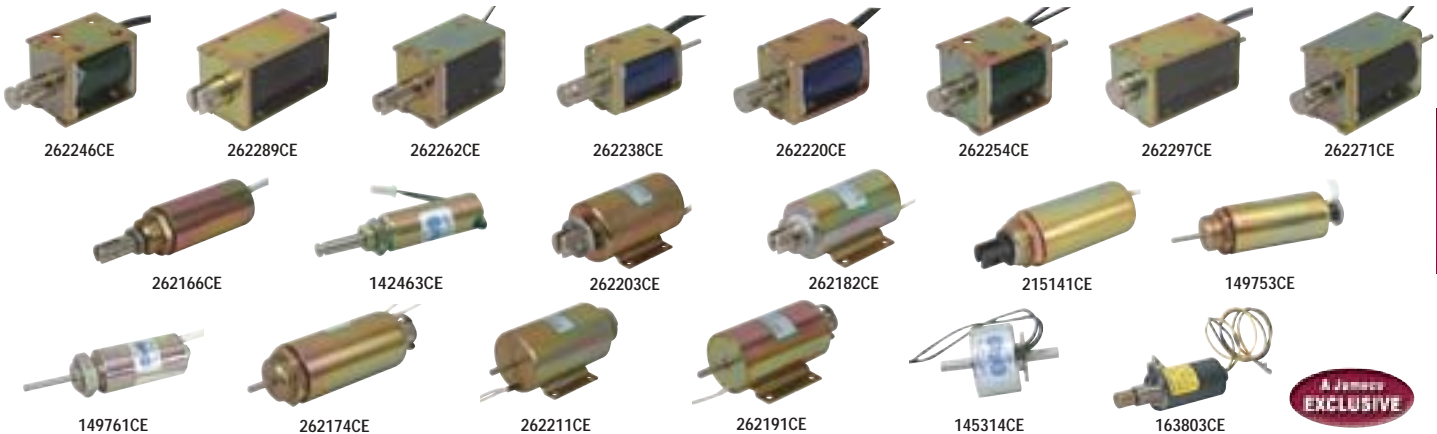
- Operating voltage: 120VAC @ 60Hz
- Torque: >3.6 kg-cm
- Connector: 12" wires
- Screw down tabs for mounting (2.3" diagonal mounting hole space)
- Shaft diameter: 0.27" • Shaft length: 0.65"
- Overall size: 2.0" Dia. x 1.0" thick
- Typical applications: air conditioner turnleaf motor, microwave turnplate motor



Part No.	Cross Ref. No.	1	10	100
213487CE	50TYZ	\$14.95	\$13.46	\$12.11

Solenoids

12VDC and 24VDC Continuous Push, Pull and Push/Pull Solenoids



Part No.	Cross Reference No.	Type	Voltage (VDC)	Coil Res. (±10%) (Ohms)	Power Consump. (W)	Holding Force (lbs. @ 20°C)	Stroke	Size L x Dia. (in.) †	Shaft Dia. (in.)	Wt. (lbs.)	Pricing		
											1	10	100
262246CE	SMO-0520L12STD	Open frame-pull	12	90	1.6	0.16	0.24	0.8 x 0.6 x 0.5	0.200	0.04	\$5.19	\$4.65	\$4.19
262289CE	SMO-1253L12AA	Open frame-pull	12	26	6.0	0.90	0.24	2.0 x 1.2 x 1.1	0.470	0.50	11.89	10.69	9.65
262262CE	SMO-0837L12STD	Open frame-pull	12	36	4.0	1.10	0.24	1.5 x 1.0 x 0.8	0.310	0.21	7.29	6.56	5.90
262238CE	SMO-0415S12AA	Open frame-push	12	180	0.8	0.01	0.12	0.6 x 0.4 x 0.3	0.040	0.01	5.95	5.35	4.79
262220CE	SMO-0415L12AA	Open frame-push	12	180	0.8	0.01	0.12	0.6 x 0.4 x 0.3	0.160	0.01	4.79	4.29	3.89
262254CE	SMO-0520S12STD	Open frame-push	12	90	1.6	0.16	0.24	0.8 x 0.6 x 0.5	0.06/0.20*	0.04	6.39	5.75	5.15
262297CE	SMO-1253S12AA	Open frame-push	12	26	6.0	0.90	0.24	2.0 x 1.2 x 1.1	0.10/0.47*	0.50	13.09	11.79	10.59
262271CE	SMO-0837S12STD	Open frame-push	12	36	4.0	1.10	0.24	1.5 x 1.0 x 0.8	0.08/0.31*	0.21	8.39	7.59	6.85
262166CE	SMT-1325L12STD	Tubular-pull	12	36	4.0	0.11	0.47	1.0 x 0.5	0.200	0.05	9.95	8.95	8.15
142463CE	SMT-1130L12A	Tubular-pull	12	36	4.0	0.63	0.40	1.6 x 0.4	0.150	0.04	6.95	6.26	5.63
262203CE	SMT-3864L24STD	Tubular-pull	24	34	17.0	1.32	1.18	2.5 x 1.5	0.620	1.10	29.95	26.95	24.29
262182CE	SMT-3257L24STD	Tubular-pull	24	44	13.0	3.30	0.70	2.3 x 1.3	0.500	0.65	19.59	17.69	15.89
215141CE	SMT-2251L24AA	Tubular-pull	24	60	10.0	4.00	1.00	3.0 x 1.0	0.440	0.40	10.95	9.31	6.98
149753CE	SMT-1325S12A	Tubular-push	12	36	4.0	0.75	0.47	1.9 x 0.5	0.063	0.05	9.95	8.96	7.92
149761CE	SMT-1632S12A	Tubular-push	12	21	7.0	1.50	0.24	2.5 x 0.6	0.098	0.10	10.95	9.86	8.87
262174CE	SMT-2551S24STD	Tubular-push	24	58	10.0	1.32	0.70	2.0 x 1.0	0.120	0.40	15.95	14.39	12.99
262211CE	SMT-3864S24STD	Tubular-push	24	34	17.0	1.32	1.18	2.5 x 1.5	0.160	1.10	31.39	28.19	25.39
262191CE	SMT-3257S24STD	Tubular-push	24	44	13.0	6.80	0.70	2.3 x 1.3	0.160	0.65	19.95	17.95	16.19
145314CE	SMT1913S12A	Tubular-push/pull	12	89	2.0	1.12	0.16	1.2 x 0.7	0.110	0.05	9.95	8.96	8.06

Other Manufacturers — Great Deals

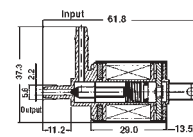
163803CE	A420-067074-01	Tubular-push	12	43	3.4	0.75	0.17	2.0 x 0.6	0.156	0.10	\$9.95	\$8.46	\$6.34
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†Open frame type dimensions: L" x W" x H"; *Dual shaft

12VDC Solenoid Valve

- Operating voltage: 12VDC • Current: 350mA
- Operational temperature: -29°C to 85°C
- Air leakage: 1c.c./min. max. 4psi
- 0.250" quick disconnect terminals

Part No.	Description	Size	1	10	100
169834CE	Solenoid valve	1.2"L x 0.92" Dia.	\$6.95	\$6.25	\$5.59



Motor Kits

See page 281
for our selection.





Miniature Basic Switches

- 3 terminals: common; normally open; normally closed
- Size: 1.10"L x 0.40"W x 0.63"H

OMRON



159572CE



159581CE/187792CE



187805CE

Part No.	Product No.	Manufacturer	Actuator Type	Contact Form	Contact Rating	Resistance (Initial)	Service Life (Mech./Elec.)	Terminal Type	Pricing		
									1	10	100
159572CE	VS10N051C	Highly Electric	Hinge roller (0.60"L)	SPDT-NC	10A@125VAC, 10A@250VAC	15milliΩ (max.)	10M/100k	.183" quick connect	\$2.89	\$2.54	\$2.28
159581CE	VS10N021C2	Highly Electric	Hinge lever (1.05"L)	SPDT-NC	10A@125VAC, 10A@250VAC	15milliΩ (max.)	10M/100k	.183" quick connect	2.45	2.25	1.99
187792CE	V-10G2-1C24K	Omron	Hinge lever (1.08"L)	SPDT-NC	0.1A@125VAC, 10A@250VAC	30milliΩ (max.)	50M/300k	.183" quick connect	2.45	2.25	1.99
187805CE	V-10G3-1C24K	Omron	Long hinge lever (2.01"L)	SPDT-NC	0.1A@125VAC, 10A@250VAC	30milliΩ (max.)	50M/300k	.183" quick connect	2.75	2.48	2.29



Subminiature Basic Switches

- Economical, subminiature basic switch offers long service life
- Free from overtravel restrictions, permits easy setting
- Lead spacing: A = 0.35"; B = 0.29"
- Dimensions: 0.78"L x 0.25"W x 0.40"H

OMRON



187709CE



187733CE



159599CE

Part No.	Product No.	Manufacturer	Actuator Type	Contact Form	Contact Rating	Contact Force	Service Life (Mech./Elec.)	Terminal Type	Pricing		
									1	25	50
187709CE	SS-5GL	Omron	Hinge lever (0.6"L)	SPDT-NC	5A @ 125VAC, 3A @ 250VAC	50g	30M/200k	Solder	\$1.59	\$1.45	\$1.29
187733CE	SS-5GL2	Omron	Hinge roller (0.6"L)	SPDT-NC	5A @ 125VAC, 3A @ 250VAC	50g	30M/200k	Solder	1.25	1.09	.99
159599CE	SS0505A	Highly Electric	Hinge roller (0.7"L)	SPDT-NC	5A @ 125VAC, 3A @ 250VAC	45g	30M/200k	Solder	1.19	.99	.89

OMRON

D2F Series Subminiature Snap-Action Switches

Super compact, for PCB mounting. Ideal for a wide variety of applications from household appliances and office equipment to audio and communications equipment.

- Long life span assured by high-precision dual spring reverse-action mechanism
- Flux penetration prevented by using an insert terminal and allowing a height difference at the case bottom



188867CE

Part No.	Product No.	Actuator Type	Contact Type	Contact Force	Contact Rating (125VAC/30VDC)	1	25	50
188867CE	D2F-L	Hinge lever	General purpose	Standard (80g)	3A/2A	\$.89	\$.83	\$.79



Snap-Action Switches

E13/E14/E19/E20/E30/G13/E19A — E - Series General Purpose Single Pole and Double Pole Snap Action Switches

- Temp rating: 105°C STD • UL/CSA
- Electrical life: 6000 cycles min.
- UL 94HB flammability rating
- General purpose phenolic case, thermo plastic nylon actuators
- Brass (E13/E19/G13/E19A) or silver-plated brass (E14/E20/E30) common terminals
- Brass (E13/E19/G13/E19A) or copper (E14/E20/E30) NO & NC terminals
- Brass (E13/E19/G13/E19A) or silver-plated beryllium copper (E14/E20/E30) moving blades
- Stainless steel springs & rollers
- Silver cadmium oxide contacts; G13-Gold crosspoint contacts
- E13/E19 - 15A, 125/250 VAC; E14 - 25A, 125/250 VAC; E20 - 20A, 125/250 VAC; E30 - 30.1A, 125/250 VAC; G13 - 0.1A, 125 VAC; E19A (mixed ratings) - 15A, 125/250 VAC; 0.1A 125 VAC

NEW
ON THE WEB



E21/E22/E23/E44/E34/E36 E - Series Miniature Snap Action Switches

- Temp rating: -40°C to +85°C • UL/CSA
- Electrical life: 6000 cycles min.
- UL 94HB flammability rating
- General purpose phenolic case, thermo-plastic acetal actuating button
- E36 silver plated copper common terminals
- E21/E22/E23/E31/E33/E34 silver-plated brass common terminals • E36 copper NO & NC terminals
- E21/E22/E23 brass moving blade; E31/E33/E34 silver plated beryllium copper
- Stainless steel spring & roller • E21/E22 aluminum auxiliary actuator
- E23/E31/E33/E34/E36 cold rolled steel (nickelplate) auxiliary actuator
- E21/E31 gold crosspoint contacts; E22/E23/E33/E34/E36 silver alloy contacts
- E21 - 0.1A 125 VAC; E22 - 3A 125/250 VAC; E33 - 10A 125/250 VAC; E34 - 15A 125/250 VAC; E36 - 25A 125/250 VAC

NEW
ON THE WEB



E51/E53 E - Series Miniature Low-Torque Snap Action Switches

- Temp rating: -40°C to +85°C • UL/CSA
- Electrical life: 6000 cycles min.
- UL 94HB flammability rating
- General purpose phenolic case
- Silver plated brass terminals • Brass moving blade
- E51 - Silver alloy; E53 - Gold crosspoint
- Stainless steel spring • E51 - 6A, 250 VAC; E53 - 0.1A, 125 VAC

NEW
ON THE WEB



E61/E62/E63 E - Series Subminiature Snap Action Switches

- Temp rating: -40°C to +85°C • UL/CUL
- Electrical life: 6000 cycles
- UL 94HB flammability rating
- Silver plated commercial bronze terminals
- Cold rolled steel (nickel plated) auxiliary actuator
- Beryllium copper moving blade • Stainless steel spring
- Thermoplastic case, thermoplastic acetal actuating button
- E61/E62 fine silver contacts; E63 gold crosspoint contacts
- E61 - 5A 125/250 VAC; E62 - 10.1A 125 VAC; E63 - 0.1A 125 VAC

NEW
ON THE WEB



These products ship from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

See Our Complete Cherry Snap Action Offering at www.Jameco.com/Prod/CherrySnapAction



Snap-Action Switches



E72 Series



D4 Series



DH3 Series

E72/E73 E-Series Subminiature Sealed

- E72 – 10A, 125/250VAC; E73 – 0.1A, 125VAC
- E72 silver alloy contacts; E73 gold cross point contacts
- Electrical life: 6000 cycles min.
- Temp. rating: -40°C to +85°C • UL/CUL
- UL 94V-0 flammability rating

NEW
ON THE WEB

D41/D42/D43/D44/D45/D48 — Miniature

- D41/D42/D43/D44 – Brass; D45 copper;
- D48 silver plated copper NO & NC terminals
- D41/D42/D43 – Brass; D44/D45/D48 beryllium copper moving blade
- D41 gold; D42/D43/D44/D45/D48 silver alloy contacts
- D41 – 1A, 125VAC; D42 – 3A, 125/250VAC; D43 – 5A, 125/250VAC;
- D44 – 10A, 125/250VAC; D45 – 15A, 125/250VAC; D48 – 21A, 125/250VAC
- Temp. rating: -40°C to +85°C • UL/CUL/VDE
- Electrical life: 6000 cycles min. • UL 94V-0 flammability rating

DA3 — Subminiature

- DA3 – 0.1A, 125VAC • Gold crosspoint
- Temp. rating: -40°C to +85°C • UL/CUL/VDE
- Electrical life: 100,000 cycles min. per UL • UL 94V-0 flammability rating

DB1/DB2/DB3 — Subminiature

- DB1 – 5A, 125/250VAC; DB2 – 10.1A, 125/250VAC; DB3 – 0.1A, 125/250VAC
- Silver alloy/gold crosspoint contacts • Temp rating: -40°C to +85°C
- UL 94V-0/ UL 94HB flammability rating • UL/CUL
- Electrical life: 100,000 cycles min. per UL

DC1/DC2/DC3 — Subminiature Sealed

- DC1/DC2 silver alloy; DC3 gold crosspoint contacts
- DC1 – 5A, 125/250VAC; DC2 – 10.1A, 125/250VAC; DC3 – 0.1A, 125/250VAC
- Temp. rating: -40°C to +85°C / +120°C (w/o wire leads); +105°C (w/wire leads)
- Electrical life: 6000 cycles min.
- UL 94V-0/ UL 94HB flammability rating • UL/CUL/VDE

DG1/DG2 — Subminiature

- DG1 silver alloy; DG2 gold flash contacts
- DG1 – 3A, 125VAC / 2A, 30VDC; DG2 – 0.05A, 30VDC
- Temp. rating: -25°C to +85°C • UL/CUL
- Electrical life: 6000 cycles min. • UL 94V-0 flammability rating

NEW
ON THE WEB

DH3/DH4 — Subminiature SPDT (Ultraminiature Dimensions)

- DH3 – 50 to 300mA @ 30VDC; DH4 – 5 to 50mA @ 30VDC
- Silver plated brass terminals
- Temp. rating: -25°C to +70°C • UL 94V-0 flammability rating

DN3 — Terminator™

- Gold alloy contacts
- Stainless steel spring & roller actuator
- Temp. rating: -40°C to +85°C

F81/F82/F83 — Line Interrupt Switches

- F81/F82 silver alloy; F83 gold crosspoint guide pin
- F81 – 10A, 125/250VAC; F82 – 16A, 125/250VAC; F83 – 0.1A, 125/250VAC
- Temp. rating: -25°C to +85°C
- UL 94V-0 flammability rating

GP — Heavy Duty

- 15A, 250VAC
- Dielectric strength – 100VAC 50/60Hz for one minute
- Initial contact resistance: 15mΩ max.
- Insulation resistance: 1000MΩ min. @ 500VDC
- Temp. rating: -20°C to +85°C
- Phenolic case & cover

K Series — Miniature

- KWA/KWB – gold plated; all others silver alloy contacts
- KWA/KWB – 50A, 125/250VAC; KWE/KWF – 3A, 125/250VAC;
- KWG/KWH – 5A, 125/250VAC; KWS – 25A, 125/250VAC
- Temp. rating: -40°C to +85°C
- Electrical life: 100,000 cycles • UL 94V-0 flammability rating



F Series



GP Series



K Series

These products ship from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

See Our Complete Cherry Snap Action Offering at www.Jameco.com/Prod/CherrySnapAction

Alcoswitch

Pushwheel Switches

Pushwheel Switches, Mini, Front Mount

- PC board: glass epoxy type, FR4
- PC terminals: gold over Ni on Cu
- Contact rating: 0.4VA @ 20VDC or peak AC
- Contact on circuit res.: 0.12Ω max. (total internal ckt. res.)
- Mechanical life: more than 10,000,000 operations



NEW
ON THE WEB

Pushwheel Switches, Front Mount

- PC board: glass epoxy type, FR4
- PC terminal spacing: 0.100" centers on integral multiples
- Contact rating: 0.4VA @ 20VDC or peak AC
- Contact circuit life resistance: 0.20Ω max.
- Mechanical life: more than 10,000,000 operations

Pushwheel Switches, Subminiature, Panel Mount, Dual Button

- Fixed contacts: 1 micron Au over Ni over Cu
- Moving contacts: gold-clad Ni over copper alloy
- PC board: FR4 glass epoxy
- Contact rating: 0.4VA @ 20VDC max.
- Contact circuit resistance: 0.15Ω max.
- PC terminal spacing: 0.100"
- Character height/color: 0.122" white (0.94" for hex codes)



NEW
ON THE WEB

These products ship from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

See Complete Alcoswitch Pushwheel Offering at www.Jameco.com/Prod/AlcoPushwheel

Pushwheel and Pushbutton Switches



Color Code Legend			
New	Sale	Lower\$	QtySave



Pushbutton Binary Coded Decimal (BCD) Switch

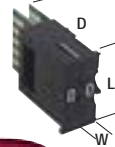
26788CE (2 switches shown)

Thumbwheel Binary Coded Decimal (BCD) Switch

(2 switches shown) 26817CE

Pushbutton and Thumbwheel Switch Specifications:

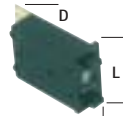
- Contact resistance: 100mΩ max.
- 1/16" maximum panel thickness
- Gold plated BE-CU alloy contacts
- 0.15A @ 50VAC/28VDC
- Break before make
- Operating temperature: -40°C to +85°C
- Continuous load: 1 amp max.
- Front snap-tab mounting with end plates
- Switches snap together



Part No.	Cross Ref. No.	Description	Size (L" x W" x D")	Character Height	Pricing			
					1	10	50	100
26788CE	MX72	10-position pushbutton	1.2 x 0.3 x 1.7	0.19"	\$5.69	\$5.15	\$4.65	\$4.15
26761CE	MXEP2	Mounting end plates for 26788	1.2 x 0.2 x 1.1	—	1.15	.99	.89	.79
26817CE	MX83	10-position thumbwheel	1.2 x 0.3 x 1.9	0.25"	4.49	3.95	3.55	3.19
26770CE	MXEP3	Mounting end plates for 26817	1.2 x 0.2 x 1.3	—	1.05	.88	.84	.77

Mini Pushbutton BCD Switch

- Operating temperature: -10°C to +65°C
- 28VDC @ 10A • Break before make
- Switches snap together
- Positive logic ("0" all open output)
- Size L = 0.59", W = 0.30", S = 1"
- Character height: 0.12"



Part No.	Cross Ref. #	Description	1	10	100
136557CE	MX061	10-position straight	\$3.79	\$3.41	\$3.06

PA/PB/PE — BCD/HEX Pushwheel Switches



NEW ON THE WEB



- Contact resistance: 0.1Ω
- Insulating resistance: 1000MΩ
- Dielectric strength: 500V
- Max. current: 1A
- Mechanical life: 10,000,000 cycles

These products ship from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

See Our Complete Pushwheel Switch Offering at www.Jameco.com/Prod/CherryPushwheel

SPST Round Keylock Switches

- Used in computer & other security systems
- Key removable from 2 positions • Two keys
- Mounting hole = 0.75" except P/N 106649CE = 0.5"

196648CE: all keys are alike

Includes: Mounting nut



106649CE

105831CE/196648CE

Part No.	Cross Ref. No.	No. Flat, Dia.	Length	Terminal	Voltage/Current	Pricing			
						1	10	50	100
106649CE	KS4B	2, .21"	.55"	Barrel	125VAC/3A	\$3.59	\$3.29	\$2.89	\$2.49
105831CE	KS3B	2, .66"	1.48"	.25" quick connect	125VAC/6A	3.99	3.59	3.29	2.99
196648CE	3313E-M	2, .66"	1.48"	.25" quick connect	125VAC/6A	4.49	3.99	3.65	3.29



Pushbutton Switches

- Contact rating: 3A @ 125VAC • 2-pin • Lead type: solder terminal
- 164566CE / 164638CE: Contact rating: .5A @ 125VAC
- 164582CE / 164671CE: Contact rating: 1A @ 125VAC
- 106112CE: Contact rating: 3A @ 110VAC

Miniature Soft Touch Switches

Part No.	Product No.	Fig.	Type () Momentary	Dimensions	Lead Spacing	Thread Diameter	Button Color	Pricing			
								1	10	100	500
164494CE	DS450R	1	SPST off-on	1.2"L x .59"Dia.	.175"	.387"	Red	\$2.09	\$2.05	\$1.97	\$1.88
164486CE	DS463R	1	SPST off-(on)	1.2"L x .59"Dia.	.175"	.387"	Red	2.15	2.05	1.95	1.85
164523CE	DS466R	2	SPST off-(on)	1.2"L x .60"Sq.	.160"	.383"	Red	1.95	1.87	1.81	1.74
164558CE	DS471R	3	SPST off-(on)	1.2"L x .75"Sq.	.160"	.387"	Red	1.95	1.87	1.81	1.74

Standard Touch Switches

Part No.	Product No.	Fig.	Type () Momentary	Dimensions	Lead Spacing	Thread Diameter	Button Color	Pricing			
								1	10	100	500
164566CE	MS402R	4	SPST off-(on)	.73"L x .22"Dia.	.078"	.190"	Red	\$1.15	\$1.14	\$1.10	\$1.06
164582CE	DS016B	5	SPST off-(on)	.88"L x .46"Dia.	.220"	.354"	Black	1.59	1.54	1.48	1.42
164638CE	MS3120R	6	SPST off-(on)	1.1"L x .31"Dia.	.175"	.268"	Red	1.65	1.49	1.34	1.26
164671CE	NS801MOB	7	SPST off-(on)	1.1"L x .59"Dia.	.213"	.468"	Black	2.45	2.05	1.94	1.77
106112CE	DS412R*	8	SPST off-(on)	.63"L x .66"Dia.	.275"	.750"	Red	1.05	1.03	.99	.98

* Solder lugs



Figure 1



Figure 2



Figure 3



Figure 4



Figure 5



Figure 6



Figure 7



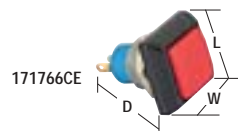
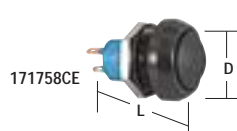
Figure 8



Pushbutton Switches

IP and AV Series Pushbutton Switches

- Panel mount
- 171758CE / 171766CE: IP Series
- Initial contact resistance: 50mΩ max.
- Insulation resistance: 1GΩ min. @ 500VDC
- Mounting hole: 1/2"Dia.
- Dielectric strength: 1500Vrms min.
- Mechanical life: 1,000,000 cycles min.
- 171774CE: AV Series
- Initial contact resistance: 10mΩ max.
- Insulation resistance: 1000MΩ min.
- Mounting hole: 3/4"Dia.
- Dielectric strength: 1000Vrms min.



Part No.	Product No.	Pins	Type () Momentary	Dimensions			Lead Spacing	Contact Rating	Terminal Type	Pricing			
				L	W	D				1	10	100	250
171758CE	IPR3SAD2	2	SPST off-(on)	0.82"	—	0.46"	0.19"	0.2A @ 250VAC	Solder	\$10.39	\$9.35	\$8.45	\$7.49
171766CE	IPC3SAD6	2	SPST off-(on)	0.82"	0.69"	0.46"	0.19"	0.2A @ 250VAC	Solder	10.39	9.35	8.45	7.49
171774CE	AV191003C900	2	SPST off-(on)	1.20"	—	0.87"	0.37"	0.2A @ 48VDC	Screw	11.95	10.84	9.75	8.79

Commercial Customers

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Pushbutton Switches



Fig. 1



Fig. 2

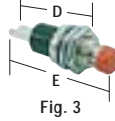


Fig. 3



Fig. 4

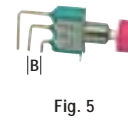


Fig. 5

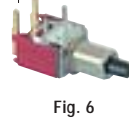


Fig. 6



Fig. 7

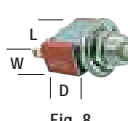


Fig. 8



Fig. 9

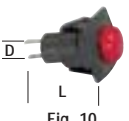


Fig. 10



Fig. 11



Fig. 12

Part No.	Cross Ref. No.	Fig.	Pins	Mounting Hole Dia.	Type () Momentary	Dimensions (L" x W" x D")	Lead Spacing		Contact Rating	Terminal Type	Button Color	Pricing				
							A"	B"				1	10	100	500	1000
315432CE	R13-23A-R	1	2	31/64"	SPST off-(on)	1.13 (D) x 1.53 (E)	.20	—	3A @ 125VAC	Solder	Red	\$1.29	\$1.20	\$.99	\$.92	\$.87
315483CE	R13-23B-R	1	2	31/64"	SPST off-(on)	1.13 (D) x 1.53 (E)	.20	—	3A @ 125VAC	Solder	Red	1.29	1.19	.99	.92	.87
315441CE	R13-23A-B	1	2	31/64"	SPST off-(on)	1.13 (D) x 1.53 (E)	.20	—	3A @ 125VAC	Solder	Black	1.29	1.19	.99	.92	.87
315491CE	R13-23B-B	1	2	31/64"	SPST off-(on)	1.13 (D) x 1.53 (E)	.20	—	3A @ 125VAC	Solder	Black	1.29	1.19	.99	.92	.87
315459CE	R13-23A-BL	1	2	31/64"	SPST off-(on)	1.13 (D) x 1.53 (E)	.20	—	3A @ 125VAC	Solder	Blue	1.29	1.19	.99	.92	.87
315504CE	R13-23B-BL	1	2	31/64"	SPST off-(on)	1.13 (D) x 1.53 (E)	.20	—	3A @ 125VAC	Solder	Blue	1.29	1.19	.99	.92	.87
315467CE	R13-23A-W	1	2	31/64"	SPST off-(on)	1.13 (D) x 1.53 (E)	.20	—	3A @ 125VAC	Solder	White	1.29	1.19	.99	.92	.87
315512CE	R13-23B-W	1	2	31/64"	SPST off-(on)	1.13 (D) x 1.53 (E)	.20	—	3A @ 125VAC	Solder	White	1.29	1.19	.99	.92	.87
315475CE	R13-23A-Y	1	2	31/64"	SPST off-(on)	1.13 (D) x 1.53 (E)	.20	—	3A @ 125VAC	Solder	Yellow	1.29	1.19	.99	.92	.87
315521CE	R13-23B-Y	1	2	31/64"	SPST off-(on)	1.13 (D) x 1.53 (E)	.20	—	3A @ 125VAC	Solder	Yellow	1.29	1.19	.99	.92	.87
315598CE	R13-40A-R	2	2	31/64"	SPST off-(on)	.98 (D) x 1.56 (E)	.20	—	3A @ 125VAC	Solder	Red	1.35	1.23	1.10	.99	.93
315619CE	R13-40B-R	2	2	31/64"	SPST off-(on)	.98 (D) x 1.56 (E)	.20	—	3A @ 125VAC	Solder	Red	1.59	1.45	1.33	1.21	1.13
315580CE	R13-40A-B	2	2	31/64"	SPST off-(on)	.98 (D) x 1.56 (E)	.20	—	3A @ 125VAC	Solder	Black	1.35	1.23	1.10	.99	.93
315601CE	R13-40B-B	2	2	31/64"	SPST off-(on)	.98 (D) x 1.56 (E)	.20	—	3A @ 125VAC	Solder	Black	1.59	1.45	1.33	1.21	1.13
26622CE	MS102	3	2	1/4"	SPST off-(on)	.65 (D) x 1.10 (E)	—	.14	3A @ 125VAC	Solder lugs	Red	.55	.50	.45	.35	.29
26649CE	MS103	3	2	1/4"	SPST on-(off)	.65 (D) x 1.10 (E)	—	.17	3A @ 125VAC	Solder lugs	Black	.55	.50	.45	.35	.29
315643CE	R13-81-R	4	2	13/64"	SPST off-(on)	.44 (D) x .78 (E)	.08	—	.5A @ 125VAC	PC terminal	Red	1.45	1.32	1.19	1.06	.94
315635CE	R13-81-B	4	2	13/64"	SPST off-(on)	.44 (D) x .78 (E)	.08	—	.5A @ 125VAC	PC terminal	Black	1.45	1.32	1.19	1.05	.94
154879CE	PS11-123	5	3	1/4"	SPDT on-(on)	.50 x .27 x .37	—	.14	5A @ 125VAC	Solder, right angle	Red	1.99	1.89	1.79	1.69	1.59
71642CE	SWB210	6	2	7/32"	SPST off-(on)	.36 x .20 x .33	.20	.20	1A @ 120VAC	PC right angle	Black	2.19	1.99	1.78	1.60	1.39
202999CE	BB16	7	3	1/4"	SPST on-(on)	.39 x .35 x .35	.18	.10	0.1A @ 28VAC	Solder right angle	White	1.18	1.09	.90	.85	.82
121304CE	CK8121	8	3	1/4"	SPDT on-(on)	.52 x .27 x .38	—	.185	5A @ 125VAC	Solder lugs	White	3.59	3.25	2.95	2.65	2.39
28062CE	PB126	8	3	1/4"	SPDT on-(on)	.52 x .28 x .38	—	.185	5A @ 120VAC	Solder lugs	Red	3.69	3.35	2.99	2.69	2.45
355451CE	J1881	9	2*	3/8"	SPST on-(off) Alt†	.65 x .52 x .40	.25	—	2A @ 14VAC	5" Pigtail	White	1.19	1.09	.94	.83	.72
355469CE	J1882	9	2*	3/8"	SPST off-(on)	.65 x .52 x .40	.25	—	2A @ 14VAC	5" Pigtail	Red	1.09	.98	.88	.79	.70
174414CE	R13-510A	10	2	1/2"	SPST off-(on)	.67 (L) x .31 (D)	—	.167	3A @ 125VAC	Solder lugs	Red	.79	.78	.77	.74	.69

Other Manufacturers

154878CE	PS11-123	5	3	1/4"	SPDT on-(on)	.50 x .27 x .37	—	.14	5A @ 125VAC	Solder, right angle	Red	\$1.79	\$1.70	\$1.61	\$1.51	\$1.43
200774CE	TP12SHBAQE	7	3	7/32"	SPDT off-(on)	.32 x .20 x .33	.20	.10	1A @ 120VAC	PC right angle	Black	4.79	4.35	3.65	2.75	1.99
22200CE	J1881	11	2*	3/8"	SPST on-(off), Alt†	.65 x .52 x .40	.25	—	2A @ 14VDC	5" Pigtail	White	1.09	.98	.83	.67	.50
22218CE	J1882	11	2*	3/8"	SPST off-(on)	.65 x .52 x .40	.25	—	2A @ 14VDC	5" Pigtail	Red	.99	.88	.79	.71	.62
307889CE	DS133	12	2	29/64"	SPST off-(on)	1.03 x .56 x .46	—	—	10A @ 125VAC	Solder Lugs	Black	4.15	3.75	3.49	3.14	2.83

† Alt = alternate action

* Lead wires

JAMECO ValuePro

Miniature Pushbutton Switches

• 6A@125V or 3A@250V

• Epoxy sealed

• Material: Alkyd base (UL94V-0), stainless steel cover



315379CE

Part No.	Cross Ref. No.	Pins	Mounting Hole Dia.	Type () Momentary	Dimensions (D" x E")	Lead Spacing		Contact Rating (A @ VAC)	Terminal Type	Button Color	Pricing				
						A"	B"				1	10	100	500	1000
315379CE	PA101A1-B/BL	2	1/4"	SPST on-off	1.2 x 1.7	.185	—	6 @ 125	Solder	Black	\$2.79	\$2.53	\$2.28	\$2.05	\$1.93
315387CE	PA101A1-R/BL	2	1/4"	SPST on-off	1.2 x 1.7	.185	—	6 @ 125	Solder	Red	2.79	2.53	2.28	2.05	1.93
315395CE	PA102A1-B/BL	2	1/4"	SPDT on-on	1.2 x 1.7	.185	—	6 @ 125	Solder	Black	2.89	2.63	2.37	2.14	1.99
315408CE	PA102A1-R/BL	2	1/4"	SPDT on-on	1.2 x 1.7	.185	—	6 @ 125	Solder	Red	2.89	2.63	2.37	2.14	1.99



E65/E68/E69/F68/F78 E-Series Panel Mount Pushbutton Switches, Single and Double Pole

- Temp. rating: -40°C to +85°C
- Electrical life: 6,000 cycles min.
- Brass terminals
- Stainless steel springs
- E65 - 16A, 125/250VAC; E68/E78 - 0.1A, 125VAC; E69 - 10A, 125/250VAC; F68 - 0.1A, 125VAC; F69 - 10A, 125/250VAC; E79/F79 - 10A, 125/250VAC; E77 - 0.1A, 125VAC; E75 - 16A, 125/250VAC
- UL/CUL
- Thermoplastic polyester case, thermoplastic acetal actuating button
- Beryllium copper moving blades
- E65/E69 silver alloy contacts: E/F68; E/F77 gold crosspoint contacts
- F designation for VDE approved

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ON THE WEB



These products ship from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

See Our Complete Cherry E and F Series Panel Mount Pushbutton Offering at www.Jameco.com/Prod/CherryPushbutton

Alcoswitch Pushbutton Switches

- Sub-Miniature Panel Mount Pushbutton (*MPA103 series*)
- Miniature Over-Travel Pushbutton (*MPB103 series*)
- Magnetic Reed Pushbutton – Long Life, Hermetically Sealed (*MSPM101 & 164EL series*)
- 6 Amp Wire Lug or PC Tails, Panel Mount Pushbutton (*MPA106/206/306/406 series*)
- 6 Amp Wire Lug, Panel Mount, Splashproof Pushbutton (*MPE106/206/406 series*)
- 6 Amp Wire Lug or PC Tails, Mustang, 15/32 Bushing Pushbutton (*MPG106/206/306/406 series*)
- 3 Amp Wire Lug, Snap Action Pushbutton (*MPS103/203 series*)
- 3 Amp PC or Wire Wrap, Snap Action Pushbutton (*MPS103/203 series*)
- 3 Amp Right Angle, Snap Action Pushbutton (*MPS103 series*)
- Panel Mount, 2.5mm Travel Pushbutton (*MSP103 & MSPS103 series*)
- 15/32 Bushing, Front or Rear Entry Mount Pushbutton (*MSPF101 series*)
- DP Momentary Contact Pushbutton (*Item# 0-1520146-1*)
- 16mm Illuminated Square Pushbutton (*164SL series*)
- Non-oiltight Rectangular Pushbutton (*164TL series*)
- Non-oiltight Selectors (*164P series*)
- 16mm Illuminated Non-oiltight 2-position Keylock (*164J series*)
- 16mm Non-oiltight Pilot Light Indicators or Lens Sets (*164EZ, 164SZ & 164TZ series*)
- Lens Set for 164 series – Includes button, diffuser and cap (*64E series – round, 64S series – square, 64T series – rectangular*)



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See Our Alcoswitch Pushbutton Offering at www.Jameco.com/Prod/AlcoPB

Alcoswitch Tiny Pushbutton Switches

- Straight or Right Angle Tiny Pushbutton – Single or Dual Actuators (*TP11 & TPA11 series*)
- Straight or Right Angle Tiny Pushbutton – Unthreaded or 10-48 Bushing (*TPB11 & TPC11 series*)
- Vertical Tiny Pushbutton – Unthreaded or 1/4-40 Bushing (*TPD11, TPF11 & TPF13 series*)
- Vertical or Right Angle Tiny Pushbutton – Unthreaded or 1/4-40 Bushing (*TPD11 & TPF11 series*)
- Process Sealed Tiny Pushbutton (*TSPD11 series*)



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See Our Alcoswitch Tiny PB Offering at www.Jameco.com/Prod/AlcoTinyPB

Alcoswitch 22mm Oil-Tight Pushbutton Switches

- Round Pushbutton (*RM0100, RM0102 & RM0105 series*)
- Mushroom or Dual Pushbutton (*RM0502 & RT0502 series*)
- Pushbutton or Keylock or Selector Switches (*RM3040, RM200, RM201 & RM3100 series*)
- Keylock or Pushbutton Switches – 22mm (*RM1222, RM1224, RM1225, RM1502, SR6012 & SR6015 series*) and 30mm (*M6200 series*)



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See Our Alcoswitch Oil-Tight Switches Offering at www.Jameco.com/Prod/AlcoOilTight

Alcoswitch Accessories for Pushbutton Switches

- Splashproof Boot Seals
– 1/4-40 Pushbutton Boot Seals for *MSPM, MPA3, MPS, MSPMBS, MSPCS, MSP3 & TP series*
– 15/32-32 Pushbutton Boot Seals for *MSPF & MPG series*
- Caps
– for *MPA3, MPG, MPS, MSPM, MPE, MPA6, MPSR series*
- Guards (*G12, G13 & G15 series*)
- Panel Seals for Miniature Pushbutton (*BPM series*)



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See Our Alcoswitch Pushbutton/Accessories at www.Jameco.com/Prod/AlcoPB

Switchcraft Button-Switch® & Cord-Switch®

- 297300CE: Button-Switch®**
- SPST-on (on) • Color: black
 - Mounting hole size: .469" • Panel thickness: .297" max.
 - Rating: 250mA, 30W maximum, AC, non-inductive load
 - Compatible with P/N 297502CE
- 297502CE: Cord-Switch®**
- Plastic insulation
 - Copper alloy plated housing and switch bushing
 - SPST-on (on) red pushbutton switch (same rating as P/N 297300CE)
 - Maximum cable side diameter: .375"



297300CE



297502CE

Part No.	Product No.	Description	1	10	25
297300CE	913	Button-switch	\$2.55	\$2.36	\$2.23
297502CE	ED903	Cord-switch	10.49	8.55	8.43

Alcoswitch Standard Slide Contacts

- Inductive loads 30A @ 120V/12A @ 300V/ 6A @ 600V
- Inductive loads (make, continuous): 6A
- Resistive loads (make, continuous): 6A



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ON THE WEB

These products ship from a separate warehouse and may not ship the same day.
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See Alcoswitch Slide Contacts Offering at www.Jameco.com/Prod/AlcoSlide

Alcoswitch Slide Switches

S Series Unsealed, SE Series Sealed, Through-Hole and Surface Mount

- Micro size, instrumentation grade
– for *MMS12, MM-12 SPDT silver upright*
– for *MMS22R, slide 2 DPDT silver right angle*
- Micro size, instrumentation grade
– for *SSA12, slide 1 pole* – for *SSA12G, slide 1 pole*
– for *SSA22, slide 2 pole* – for *SSA22G, slide 2 pole*
- PC tails, wiping contact, consumer grade
- Miniature, rolling contact, economy grade
- Low profile, instrumentation grade
- Instrumentation grade
- Vertical, single or dual actuator
- Right angle, single or dual actuator
- Instrumentation grade, 0.100 terminal spacing
- Auto insertable, through-hole and surface mount
- Flush actuator, through-hole and surface mount



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See Our Alcoswitch Slide Switch Offering at www.Jameco.com/Prod/AlcoSlide



Rocker Switches

GR Series – Compact Rocker Switches

- 15A @ 125VAC, 10A @ 250VAC
- Dielectric strength: 1000VAC for 1 min.
- Initial contact resistance: .020Ω max.
- Temp rating: -20°C to +85°C

LR Series – Miniature Rocker Switches

- Dielectric strength: 1000VAC
- UL/CSA/VDE/CE
- Insulation resistance: 1000MΩ min. @ 500VDC
- Initial contact resistance: .020Ω max.

FR Series – Double Pole Rocker Switches

- Electrical life: 6000 cycles
- Dielectric strength: 1000VAC for 1 min.
- Insulation resistance: 1000MΩ min. @ 500VDC
- Initial contact resistance: .030Ω max.

PR Series – Panel Mount Power Rocker Switches

- UL/CUL/VDE • 6A @ 125VAC, 3A @ 250VAC
- Electrical life: 6000 cycles
- Dielectric strength: 1000VAC for 1 min.
- Insulation resistance: 1000MΩ @ 500VDC
- Initial contact resistance: 20μΩ max.

These products ship from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

RR Series – Round Rocker Switches

- UL/CSA/CE/VDE • 10A @ 125VAC, 8A @ 250VAC
- Insulation resistance: 100MΩ min. @ 500 VDC
- Initial contact resistance: .020Ω max.

NEW
ON THE WEB

Power Rocker Switches

- SPST 16A red LED quick connect • Panel mount
- SPST, 2 terminals, non-illuminated
- DPST, 4 terminals, non-illuminated

SR Series – Miniature Rocker Switches

- 10A @ 125VAC, 6A @ 250VAC • UL/CSA/VDE/CE
- Dielectric strength: 1000VAC for 1 min. • Initial contact: .020Ω max.
- Insulation resistance: 1000MΩ min. @ 500VDC

TR Series – Double Pole Rocker Switches

- Dielectric strength: 1000VAC for 1 min. • 16A 125/250VAC
- Insulation resistance: 1000MΩ min. @ 500VDC
- Initial contact resistance: .020Ω max.

WR Series – Double Pole Power Rocker Switches

- Dielectric strength: 1000VAC for 1 min. • UL/CSA/VDE/CE
- Insulation resistance: 1000MΩ min. @ 500VDC
- Initial contact resistance: .020Ω max.



GR Series



RR Series



TR Series

See Our Complete Series of Cherry Rocker Switches Offering at www.Jameco.com/Prod/CherryRocker

Alcoswitch

A Series

- Contact rating: gold 0.4VA @ 20AC/DC
- Dielectric strength: 1000V_{RMS} @ sea level
- Insulation resistance: 1000MΩ @ 500VDC
- Actuator material: polyamide

NEW
ON THE WEB

Rocker/Paddle Switches

TRD Series

- Contact rating: silver 3A max. @ 125VAC
- Dielectric strength: 1000VAC for one min.
- Insulation resistance: 100MΩ @ 500VDC
- Initial contact resistance: 0.020Ω max.

TRD Series

- Contact rating: silver 3A max. @ 125VAC
- Dielectric strength: 500V_{RMS} @ sea level
- Insulation resistance: 1000MΩ @ 500VDC
- Initial contact resistance: 20 mΩ max.

These products ship from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

See Our Complete Series of AlcoSwitch Rocker Switches Offering at www.Jameco.com/Prod/AlcoRocker

JAMECO ValuePro

Rocker Switches

A Jameco EXCLUSIVE



Fig. 1



Fig. 2



Fig. 3



Fig. 4



Fig. 5



Fig. 6

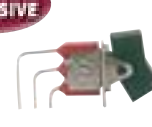


Fig. 7



Fig. 8

Part No.	Cross Ref. No.	Fig.	Pins	Type Q Momentary	Contact Rating (A @ VAC)	Mounting Hole	Mounting Type	Terminal Type	Rocker Color	Rocker Type	Lead Space A" B"	Dimensions (L"xW"xD")	Pricing		
													1	10	100
316451CE	R13-243A-02	1	2	SPST on-off	8 @ 125	.78"L x .28"W	Panel Mnt	.187" quick conn.	Black	Rectangle	0.35 —	.83 x .37 x .85	\$1.39	\$1.26	\$1.14
316478CE	R13-243F-02	1	2	SPST (on)-off	8 @ 125	.78"L x .28"W	Panel Mnt	.187" quick conn.	Black	Rectangle	0.35 —	.83 x .37 x .85	2.05	1.88	1.69
196154CE	R30NSA	2	2	SPST on-off	15 @ 125	1.07"L x .43"W	Panel Mnt	.250" Quick conn.	Solid Black	Rectangle	0.45 —	1.07 x .42 x .85	1.75	1.59	1.44
316013CE	R13-66A-B-02	3	2	SPST on-off	16 @ 125	.78"L x .52"W	Panel Mnt	.187" quick conn.	Black top	Rectangle	0.31 —	.83 x .59 x .47	.99	.86	.56
316021CE	R13-66A-R-02	4	2	SPST on-off	16 @ 125	.78"L x .52"W	Panel Mnt	.187" quick conn.	Red top	Rectangle	0.31 —	.83 x .59 x .47	.99	.86	.56
316128CE	R13-73B-R-02	5	3	SPST on-off	10 @ 125	.78"L x .52"W	Panel Mnt	.187" quick conn.	Red Illum.	Rectangle	0.35 0.35	.83 x .59 x .87	1.49	1.35	1.22
316136CE	R13-73B-Y-02	5	3	SPST on-off	10 @ 125	.78"L x .52"W	Panel Mnt	.187" quick conn.	Yellow Illum.	Rectangle	0.35 0.35	.83 x .59 x .87	1.49	1.35	1.22
316144CE	R13-73B-G-02	5	3	SPST on-off	10 @ 125	.78"L x .52"W	Panel Mnt	.187" quick conn.	Green Illum.	Rectangle	0.35 0.35	.83 x .59 x .87	1.65	1.50	1.35
316048CE	R13-66B-G-02	6	3	SPST on-off	16 @ 125	.78"L x .52"W	Panel Mnt	.187" quick conn.	Green Illum.	Rectangle	0.31 0.31	.83 x .59 x .47	1.19	1.02	.67
140531CE	CK7101	7	3	SPDT on-on	5 @ 120	—	PC Mnt	PC right angle	Solid Black	Rectangle	0.15 —	.50 x .50 x .27	1.49	1.34	1.21
316056CE	R13-66C-B-02	6	3	SPDT on-on	16 @ 125	.78"L x .52"W	Panel Mnt	.187" quick conn.	Solid Black	Rectangle	0.31 0.31	.83 x .59 x .47	1.19	.96	.60
316064CE	R13-66C-R-02	6	3	SPDT on-on	16 @ 125	.78"L x .52"W	Panel Mnt	.187" quick conn.	Solid Red	Rectangle	0.31 0.31	.83 x .59 x .47	1.19	.96	.60
316072CE	R13-66D-02	6	3	SPDT on-off-on	16 @ 125	.78"L x .52"W	Panel Mnt	.187" quick conn.	Black (I-O-I)	Rectangle	0.31 0.31	.83 x .59 x .47	1.19	1.02	.80
316110CE	R13-73A2-B-02	8	4	DPST on-off	10 @ 125	.78"L x .52"W	Panel Mnt	.187" quick conn.	Solid Black (I-O)	Rectangle	0.20 0.34	.83 x .59 x .87	1.69	1.58	1.42
316152CE	R13-73C-R-02	8	4	DPST on-off	10 @ 125	.78"L x .52"W	Panel Mnt	.187" quick conn.	Red Illum.	Rectangle	0.20 0.34	.83 x .59 x .87	2.05	1.88	1.69
316161CE	R13-73C-Y-02	8	4	DPST on-off	10 @ 125	.78"L x .52"W	Panel Mnt	.187" quick conn.	Yellow Illum.	Rectangle	0.20 0.34	.83 x .59 x .87	2.05	1.88	1.69
316179CE	R13-73C-G-02	8	4	DPST on-off	10 @ 125	.78"L x .52"W	Panel Mnt	.187" quick conn.	Green Illum.	Rectangle	0.20 0.34	.83 x .59 x .87	2.25	2.04	1.84

Other Manufacturers — Great Deals

140530CE	CK7101	—	3	SPDT on-on	5 @120	—	PC mnt. vert.	PC right angle	Black	Rectangle	0.15 —	.50 x .50 x .27	\$1.49	\$1.34	\$1.21
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Color Code Legend
New Sale Lower\$ QtySave

Alcoswitch Toggle Switches

Gemini Series

- Toggle switches, A series
- A series, vertical, wire lug, long bat actuator
- A series, PC terminals, long bat actuators
- MT series, wire lug, long bat actuator
- Miniature toggle switches
- Legend plates, boot seals for toggle switches
- Boot seals for toggle switches

NEW
ON THE WEB



TT Series

- Tiny toggle switches
- Tiny, vertical, PC mount
- Tiny, vertical and vertical right angle, PC mount
- Tiny, wire wrap termination
- Tiny, wire lug, round or flat actuators
- Tiny, wire lug, long actuators
- Process sealed, right angle, retention feature
- AE series, process sealed, right angle, short bat actuator



Tool Handle Toggle Switch

- 20A @ 125V AC/DC; 10A @ 250V AC/DC
- Baton-style toggle
- Screw-in terminal



These products ship from a separate warehouse and may not ship the same day.
Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

See Our Alcoswitch Toggle Switch Offering at www.Jameco.com/Prod/AlcoToggle

Alcoswitch Tactile Switches

Tactile Switches, 0.138" x 0.236" (3.5 x 6mm) Through-Hole

- Contact rating: 50mA @ 12VDC
- Initial contact resistance: 100mΩ max.
- Insulation resistance: 100MΩ min. @ 500VDC
- Dielectric strength: 1000VAC for 1 minute
- Terminals/fixed contacts: copper alloy, silver/nickel



Tactile Switches, 0.236" x 0.236" (6 x 6mm) Through-Hole

- Contact rating: 50mA @ 12VDC
- Initial contact resistance: 100mΩ max.
- Insulation resistance: 100MΩ min. @ 100VDC
- Dielectric strength: 500VAC
- Terminals: copper alloy, silver plate

NEW
ON THE WEB

Tactile Switches, 0.236" x 0.236" (6 x 6mm) Right Angle

- Contact rating: 50mA @ 12VDC
- Initial contact resistance: 100mΩ max.
- Insulation resistance: 100MΩ min. @ 100VDC
- Dielectric strength: 500VAC
- Terminals: copper alloy, silver plate



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See Our Alcoswitch Tactile Switch Offering at www.Jameco.com/Prod/AlcoTactile

Alcoswitch SIP Switches, Vertical & Right Angle

- Low profile
- Actuator material: polyamide
- Terminals/fixed contacts: solder-coated copper alloy
- Contact rating: 0.4VA @ 20VDC max.
- Initial contact resistance: 50mΩ max.
- Insulation resistance: 100MΩ min. @ 100VDC
- Dielectric strength: 500VAC



NEW
ON THE WEB

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See Our Alcoswitch SIP Switch Offering at www.Jameco.com/Prod/AlcoSIP

Alcoswitch Rotary Switches

Rotary Switches, 0.5A, Adjustable Stop, 36° Throw

- Contact rating: 500mA @ 125VAC or 28VDC resistive
- Initial contact resistance: 50mΩ max.
- Terminals/fixed contacts: silver-plated brass
- Insulation resistance: 100MΩ min.
- Dielectric strength: 1000VAC_{RMS} @ sea level



36° Throw

Rotary Switches, 0.4VA, PC Mount, 30° Throw

- Contact rating: 0.4VA max. @ 20 VDC or peak AC
- Initial contact resistance: 30mΩ max.
- Terminals/fixed contacts: gold plated
- Insulation resistance: 10,000MΩ min.
- Dielectric strength: 1000VAC_{RMS} @ sea level

NEW
ON THE WEB



6000 Series

Rotary Switches, 6000 Series

- Insulation resistance: 1000MΩ
- Dielectric breakdown voltage: 500VDC min.
- Initial contact res.: 25mΩ @ 50mV, 100mA, closed circuit
- Contacts: phosphor, bronze, gold over nickel plated
- Single pole switches, brass, tin plated
- Solder tabs & pins, coded switches, beryllium copper, tin plated

Rotary DIP Switches Process Sealed, Through-Hole & SMT

- Terminals: tin lead plated brass
- SMT, polyamide (white case)
- Contact rating: 0.4VA @ 20VDC max.
- Initial contact res.: 50mΩ max. @ 2VDC
- Insulation resistance: 100MΩ min. @ 100VDC
- Dielectric strength: 300VAC_{RMS} @ sea level

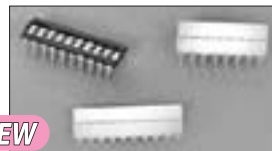
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See Our Alcoswitch Rotary Switch Offering at www.Jameco.com/Prod/AlcoRotary

Alcoswitch DIP Switches

- Recessed rocker, through-hole & surface mount
- Half pitch, ultra-low profile, 0.67" high
- Extended actuator, auto insertable, through-hole and surface mount
- Flush actuator, auto insertable, through-hole and surface mount
- Piano actuator, auto insertable, through-hole and surface mount
- DIP switch low contacts
- DIP switch sealed
- DIP switch assy, type C, 7100 series, SPST, low profile
- Low profile DIP switch
- Shunt DIP, programmable 7600 series
- DIP switch assy, type C, 7000 series, SPST, side actuated/standard
- DIP shunt
- DIP switch rocker style actuator
- Series 90B, through-hole DIP switches machine insertable
- Series 90HB – SPST low profile surface mount DIP switches
- Series 76 – SPST through-hole DIP switches
- Series 78 – through-hole DIP switches

NEW
ON THE WEB



These products ship from a separate warehouse and may not ship the same day.
Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

See Our Alcoswitch DIP Switch Offering at www.Jameco.com/Prod/AlcoDIP

Grayhill 94H Rotary DIP Switch

- Octal (8-position), BCD (10 position), hex (16 position) configurations
- 94HA-flush actuator; 94HB-0.270" actuator
- Sealed construction
- Surface mount or through-hole style
- Standard and right-angle mount
- Gold plated contacts

NEW
ON THE WEB



These products ship from a separate warehouse and may not ship the same day.
Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

See Our Grayhill DIP Switch Offering at www.Jameco.com/Prod/RotaryDIP

JAMECO ValuePro



Standard Toggle Switches

- Panel mount
- Mounting hole diameter: 1/2"
- Full-size round lever for standard and metal
- Full-size flat lever for plastic
- Medium duty
- Keyed plate indicates switch position

Includes: Mounting hardware and on/off plate

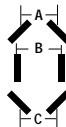
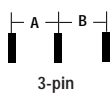


Fig. 1



Fig. 2



Fig. 3



Fig. 4

Part No.	Cross Ref. No.	Fig.	Pins	Type	Dimensions L" x W" x D"	Lead Spacing			Contact Rating (A @ VAC)	Lead Type	Lever Type	Pricing				
						A"	B"	C"				1	10	100	500	1000
76241CE	SWM128	1	2	SPST on-off	1.00 x .56 x .52	.23	—	—	4 @ 125 & 2 @ 250	Solder lugs	Round	\$1.49	\$1.29	\$1.19	\$.99	\$.89
76232CE	SWM125	2	2	SPST on-off	1.00 x .53 x .51	—	—	—	6 @ 125 & 3 @ 250	6" lead wire	Round	1.75	1.59	1.45	1.29	1.15
317817CE	R13-25A1-05	3	2	SPST on-off	1.14 x .59 x .62	.38	.38	—	10 @ 125 & 6 @ 250	Solder	Plastic	1.39	1.29	.85	.81	.80
317833CE	R13-25A2-05	3	2	SPST on-off	1.14 x .59 x .62	.38	.38	—	10 @ 125 & 6 @ 250	Solder	Metal	1.99	1.75	1.39	1.25	1.19
317809CE	R13-25A1-01	3	2	SPST on-off	1.14 x .59 x .62	.38	.38	—	10 @ 125 & 6 @ 250	.250" quick connect	Plastic	1.39	1.29	.85	.81	.80
317825CE	R13-25A2-01	3	2	SPST on-off	1.14 x .59 x .62	.38	.38	—	10 @ 125 & 6 @ 250	.250" quick connect	Metal	1.99	1.75	1.38	1.25	1.19
318001CE	R13-28A-01	4	2	SPST on-off	1.33 x .75 x .75	.45	.61	.45	15 @ 125 & 10 @ 250	.250" quick connect	Round	1.99	1.75	1.39	1.25	1.13
318019CE	R13-28A-05	4	2	SPST on-off	1.33 x .75 x .75	.45	.61	.45	15 @ 125 & 10 @ 250	Solder	Round	1.99	1.45	1.39	1.25	1.13
318027CE	R13-28A-06	4	2	SPST on-off	1.33 x .75 x .75	.45	.61	.45	15 @ 125 & 10 @ 250	M3 Screw	Round	2.25	1.99	1.55	1.39	1.25
317892CE	R13-25C1-05	3	3	SPDT on-on	1.14 x .59 x .62	.38	.38	—	10 @ 125 & 6 @ 250	Solder	Plastic	2.39	2.15	1.69	1.52	1.46
317913CE	R13-25C2-05	3	3	SPDT on-on	1.14 x .59 x .62	.38	.38	—	10 @ 125 & 6 @ 250	Solder	Metal	2.45	2.15	1.69	1.51	1.49
317884CE	R13-25C1-01	3	3	SPDT on-on	1.14 x .59 x .62	.38	.38	—	10 @ 125 & 6 @ 250	.250" quick connect	Plastic	2.85	2.55	2.00	1.79	1.72
317905CE	R13-25C2-01	3	3	SPDT on-on	1.14 x .59 x .62	.38	.38	—	10 @ 125 & 6 @ 250	.250" quick connect	Metal	2.45	2.15	1.69	1.51	1.49
318086CE	R13-28C-01	4	3	SPDT on-on	1.33 x .75 x .75	.45	.61	.45	15 @ 125 & 10 @ 250	.250" quick connect	Round	2.45	2.15	1.69	1.52	1.39
318094CE	R13-28C-05	4	3	SPDT on-on	1.33 x .75 x .75	.45	.61	.45	15 @ 125 & 10 @ 250	Solder	Round	2.45	2.15	1.69	1.52	1.39
318107CE	R13-28C-06	4	3	SPDT on-on	1.33 x .75 x .75	.45	.61	.45	15 @ 125 & 10 @ 250	M3 Screw	Round	2.89	2.55	1.99	1.79	1.75
317930CE	R13-25D1-05	3	3	SPDT on-off-on	1.14 x .59 x .62	.38	.38	—	10 @ 125 & 6 @ 250	Solder	Plastic	2.45	2.15	1.69	1.55	1.45
317956CE	R13-25D2-05	3	3	SPDT on-off-on	1.14 x .59 x .62	.38	.38	—	10 @ 125 & 6 @ 250	Solder	Metal	2.45	2.15	1.69	1.55	1.45
318123CE	R13-28D-01	4	3	SPDT on-off-on	1.33 x .75 x .75	.45	.61	.45	15 @ 125 & 10 @ 250	.250" quick connect	Round	2.45	2.15	1.69	1.52	1.47
318131CE	R13-28D-05	4	3	SPDT on-off-on	1.33 x .75 x .75	.45	.61	.45	15 @ 125 & 10 @ 250	Solder	Round	2.45	2.15	1.69	1.52	1.47
318140CE	R13-28D-06	4	3	SPDT on-off-on	1.33 x .75 x .75	.45	.61	.45	15 @ 125 & 10 @ 250	M3 Screw	Round	2.89	2.55	1.99	1.79	1.69
158060CE	JKN32	1	4	DPST on-off	1.00 x .56 x .52	.23	—	.23	4 @ 125 & 2 @ 250	Solder lugs	Round	1.15	1.05	.95	.85	.75
76260CE	SWM126	1	6	DPDT on-on	1.12 x .77 x .60	.30	.60	.40	5 @ 125 & 3 @ 250	Solder lugs	Round	1.75	1.59	1.45	1.29	1.15
158078CE	JKN3CC	1	6	DPDT on-on	1.19 x .76 x .73	.44	.59	.44	10 @ 125 & 6 @ 250	Screw lugs	Round	1.75	1.59	1.29	.99	.85
317850CE	R13-25B1-05	3	6	DPDT on-on	1.14 x .59 x .62	.38	.38	—	10 @ 125 & 6 @ 250	Solder	Plastic	3.75	3.35	2.61	2.34	2.25
318043CE	R13-28B-01	4	6	DPDT on-on	1.33 x .75 x .75	.45	.61	.45	15 @ 125 & 10 @ 250	.250" quick connect	Round	3.75	3.35	2.59	2.35	2.09
318051CE	R13-28B-05	4	6	DPDT on-on	1.33 x .75 x .75	.45	.61	.45	15 @ 125 & 10 @ 250	Solder	Round	3.75	3.35	2.59	2.35	2.09
318060CE	R13-28B-06	4	6	DPDT on-on	1.33 x .75 x .75	.45	.61	.45	15 @ 125 & 10 @ 250	M3 Screw	Round	4.59	4.15	3.19	2.89	2.75
317972CE	R13-25E1-05	3	6	DPDT on-off-on	1.14 x .59 x .62	.38	.38	—	10 @ 125 & 6 @ 250	Solder	Plastic	3.75	3.35	2.61	2.34	2.25

Other Manufacturers — Great Deals

76259CE	SWM126	1	6	DPDT on-on	1.12 x .77 x .60	.30	.60	.40	5 @ 125 & 3 @ 250	Solder lugs	Round	\$1.59	\$1.45	\$1.29	\$1.15	\$1.05
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JAMECO ValuePro

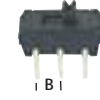
Slide Switches



- Two mounting flanges
- Top actuation
- Nylon actuator
- Phenolic insulated



109170CE



161816CE



204142CE

Part No.	Pins	Type	Description	Housing Material #	Dimensions			Lead Spacing		Contact Rating	Lead Length	Actuator Height	Pricing			
					L"	W"	D"	A"	B"				1	10	100	250
109170CE	3	SPDT on-on	PC mount	Plastic	.22	.45	.23	—	.12	0.5A @ 50VDC	.17"	.15"	\$.31	\$.26	\$.23	\$.19
161816CE	6	DPDT on-on†	PC mount	Plastic	.38	.14	.13	.13	.11	0.1A @ 20VDC	.11"	.08"	.59	.49	.39	.29

Other Manufacturers — Great Deals

204142CE	3	SPDT on-on*	PC mount	Plastic	.77	.40	.37	—	.19	2.0A @ 28VDC	.19"	.17"	\$.28	\$.16	\$.15	\$.13
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† Plastic — flanges * Side actuated # Plastic: 6/6 nylon; metal: steel zinc plated



Slide Switches

- 1000 Series Slide Miniature SPDT & DPDT
- A Series SPDT & DPDT
- BP Series DIP
- ES Series Slide SPST, SPDT, DPDT
- GS Series SPDT
- TS Series Slide SPDT
- S Series Slide SPST, DPDT
- V Series Slide

NEW
ON THE WEB



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 Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

See Our Complete C&K Slide Switches Offering at
www.Jameco.com/Prod/CKSlide



Toggle Switches

- 7000 Series SPDT & DPDT
- E Series SPDT
- E020 Series DPDT
- ET Series SPDT
- GT Series SPDT & Ultra Miniature SPDT
- T Series SPDT & DPDT
- 9000 Series DPDT

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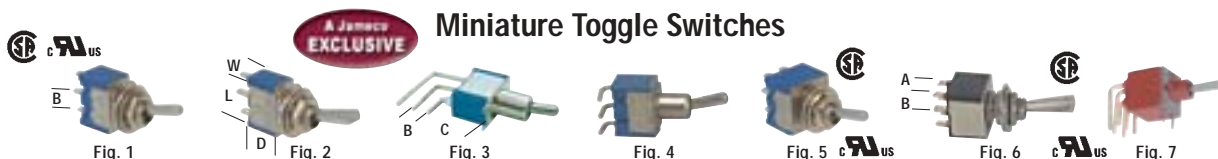


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See Our Complete C&K Toggle Switches Offering at
www.Jameco.com/Prod/CKToggle

Miniature Toggle Switches

- Mounting hole diameter: 1/4"
- Includes: Mounting hardware



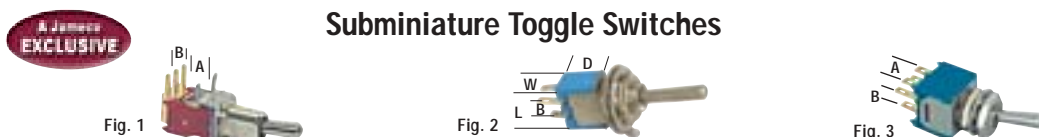
Part No.	Cross Ref. No.	Fig.	Pins	Type () Momentary	Dimensions L" x W" x D"	Lead Spacing			Contact Rating (A @ VAC)	Lead Type	Lever Type	Pricing				
						A"	B"	C"				1	10	100	500	1000
76523CE	JMT113	1	2	SPST on-off	.52 x .32 x .38	—	.185	—	6 @ 125 & 3 @ 250	Solder lugs	Round	\$1.15	\$1.03	\$.93	\$.75	\$.65
21936CE	JMT123	1	3	SPDT on-on	.52 x .32 x .38	—	.185	—	5 @ 125 & 2 @ 250	Solder lugs	Round	1.15	1.03	.93	.75	.65
21910CE	JMT121	1	3	SPDT on-off-on	.52 x .32 x .38	—	.185	—	5 @ 125 & 2 @ 250	Solder lugs	Round	1.35	1.25	1.09	.95	.85
22832CE	LFH123	2	3	SPDT on-on	.52 x .28 x .36	—	.185	—	5 @ 125 & 2 @ 250	Solder lugs	Flat	1.15	1.05	.95	.85	.75
75854CE	SWM132	1	3	SPDT on-on	.52 x .32 x .38	—	.185	—	6 @ 125 & 3 @ 250	Solder lugs	Round	1.29	1.16	1.04	.94	.69
75889CE	SWM129	1	3	SPDT (on)-off-(on)	.52 x .32 x .38	—	.185	—	6 @ 125 & 3 @ 250	Solder lugs	Round	1.99	1.85	1.55	1.09	.95
26331CE	MPC123	1	3	SPDT on-on	.52 x .32 x .37	—	.185	—	6 @ 125 & 3 @ 250	PC straight	Round	1.39	1.25	1.12	.95	.78
26315CE	MPC121	1	3	SPDT on-off-on	.52 x .32 x .37	—	.185	—	5 @ 125 & 2 @ 250	PC straight	Round	1.29	1.15	1.05	.95	.75
71597CE	SWM148	3	3	SPDT on-on	.52 x .32 x .38	—	.185	.20	5 @ 125 & 2 @ 250	PC right angle	Round	1.19	1.09	.91	.73	.55
75871CE	SWM145	4	3	SPDT on-on	.52 x .32 x .38	—	.185	.20	6 @ 125 & 3 @ 250	PC right angle	Round	1.49	1.35	1.09	.86	.79
22841CE	LFH221	6	6	DPDT on-off-on	.52 x .52 x .38	.20	.185	—	3 @ 125 & 1 @ 250	Solder lugs	Flat	1.45	1.35	1.19	1.09	.95
21979CE	JMT223	5	6	DPDT on-on	.52 x .52 x .38	.20	.185	—	5 @ 125 & 2 @ 250	Solder lugs	Round	1.49	1.29	1.15	.99	.59
22859CE	LFH223	6	6	DPDT on-on	.52 x .52 x .38	.20	.185	—	5 @ 125 & 2 @ 250	Solder lugs	Flat	1.29	1.19	1.05	.95	.85
75900CE	SWM133	5	6	DPDT on-on	.52 x .52 x .38	.20	.185	—	6 @ 125 & 3 @ 250	Solder lugs	Round	1.49	1.35	1.25	.99	.85
21952CE	JMT221	5	6	DPDT on-off-on	.52 x .52 x .38	.20	.185	—	6 @ 125 & 3 @ 250	Solder lugs	Round	1.29	1.16	1.04	.89	.75
75951CE	SWM130	5	6	DPDT (on)-off-(on)	.52 x .52 x .38	.20	.185	—	6 @ 125 & 3 @ 250	Solder lugs	Round	1.49	1.35	1.25	.99	.89
26366CE	MPC223	5	6	DPDT on-on	.52 x .52 x .38	.20	.185	—	5 @ 125 & 2 @ 250	PC straight	Round	1.49	1.35	1.25	.99	.89
26358CE	MPC221	5	6	DPDT on-off-on	.52 x .52 x .38	.20	.185	—	5 @ 125 & 2 @ 250	PC straight	Round	1.29	1.16	1.04	.89	.75

Other Manufacturers

105814CE	SWA208	5	6	DPDT on-(on)	.52 x .52 x .38	.20	.185	—	5 @ 125 & 2 @ 250	Solder lugs	Round	\$1.59	\$1.45	\$1.29	\$1.15	\$.89
202964CE	WI24	7	6	DPDT on-off-(on)	.50 x .50 x .46	.15	.15	.20	6 @ 125 & 3 @ 250	PC right angle	Round	1.59	.79	.68	.54	\$.41

Subminiature Toggle Switches

- Mounting hole diameter: 7/32"
- Pre-tinned leads
- Metal construction
- Includes: Mounting hardware



Part No.	Cross Ref. No.	Fig.	Pins	Type	Dimensions L" x W" x D"	Lead Spacing		Contact Rating	Lead Type	Lever Type	Pricing				
						A"	B"				1	10	100	500	1000
106067CE	SWP124	1	3	SPDT on-on	.25 x .33 x .40	.20	.10	30mA @ 5VDC	PC right angle	Round	\$1.99	\$1.83	\$1.59	\$1.44	\$1.32
72160CE	SW1501	2	2	SPST on-off	.33 x .21 x .33	.10	—	1.5A @ 250VAC	Solder lugs	Round	1.09	1.07	1.04	.99	.84
75969CE	SWM136	2	3	SPDT on-on	.33 x .21 x .33	.10	—	3A @ 125VAC	Solder lugs	Round	1.55	1.44	1.21	.86	.63
72557CE	SW1502	2	3	SPDT on-off-on	.33 x .21 x .33	.10	—	1.5A @ 250VAC	Solder lugs	Round	1.35	1.25	1.05	.85	.60
138907CE	SW1503	3	6	DPDT on-off-on	.36 x .37 x .33	.17	.10	3A @ 120VAC	Solder lugs	Round	1.29	1.05	.85	.65	.55
75977CE	SWM137	3	6	DPDT on-on	.33 x .37 x .33	.17	.10	1.5A @ 250VAC	Solder lugs	Round	1.29	1.05	.85	.65	.55

Key Switches

Medium Security Switches — SPST Type - 5 Disc Tumblers

- Contact rating: 1A @ 120VAC resistive
- Contact timing: non-shorting
- Terminals/fixed contacts: screw type
- Key material: brass
- Contacts: silver
- Cylinder material: zinc alloy
- Lock body: zinc alloy



Medium Security Switches — SPST Type - 4 Disc Tumblers

- Contact rating: 1A @ 120VAC resistive
- Contact timing: non-shorting
- Terminals/fixed contacts: screw type
- Key material: brass
- Contacts: silver
- Cylinder material: zinc alloy
- Lock body: zinc alloy



High Security Key Switches

- Contact rating: 5A @ 115VAC, 15A @ 24VDC
- Contact timing: non-shorting
- Terminals/fixed contacts: screw type
- Dielectric strength: 1000VAC @ sea level
- Contacts: silver
- Cylinder material: zinc alloy
- Lock body: zinc alloy
- Initial contact resistance: 50mΩ max.



2-Position Key Switches

- Contact rating: gold 0.4VA max. @ 20VDC or peak AC
- Terminals/fixed contacts: tin lead plating
- Dielectric strength: 1000 volts @ sea level
- Contacts: gold or silver plating
- Initial contact resistance: 20mΩ max.
- Insulation resistance: 1000MΩ @ 500VDC min.

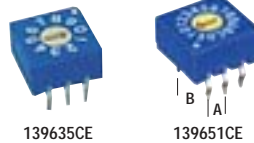
NEW
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See Our Complete Key Switch Offering at www.Jameco.com/Prod/KeySwitches

Excell Rotary DIP Switches

- Gold plated contacts to ensure reliable, low resistance connection
- Fully sealed construction
- Life: 10,000 cycles min.
- Max. switching load rating: 25mA @ 24VDC
- Material: 94V-0 grade, UL approved fire retardant plastic
- Lead spacing: A = 0.1"; B = 0.3"
- Op force: 500g-cm max.
- Terminals: PC pin leads



Part No.	Cross Ref. No.	Position	Adjust	Code Type	W" x D" x H"	1	10	50	100
139635CE	ERD110RS(DRD10)	10	top	BCD	.39 x .39 x .20	\$2.59	\$2.33	\$2.07	\$1.86
139651CE	ERD116RS	16	top	Hex	.39 x .20 x .39	2.75	2.49	2.22	1.99

Replacement Switches for AT-Style Computer Cases

PC Pushbutton Switches

- Alternate action double pole switch
- Contacts rated at 250VAC
- UL/CSA/VDE approved
- Size: 0.9"L x 0.7"W x 0.9"D



Part No.	Description	Current	1	10	100
127044CE	PC push button	7.5A ..	\$1.95	\$1.66	\$1.24
174238CE	PC push button	8A.....	.94	.85	.78

PC Rocker Switch

- For mini-tower cases
- Contacts rated at 250VAC
- UL/CSA approved
- DPST
- Size: 0.9"L x 1.2"W x 1.4"D

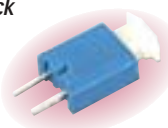


Part No.	Description	Current	1	10	100
127028CE	PC rocker	10A	\$2.95	\$2.69	\$2.39

OMRON D2F Series Subminiature PCB Plunger Switch

Use in Place of Shorting Block

- SPST (on/off)
- Contact rating: 50mA @ 24VDC
- Non-removable plunger
- Size: 0.2"W x 0.1"D x 0.38"H
- Lead length: 0.1"L
- 10 piece minimum



Part No.	Description	10	100	1000
172700CE	Plunger switch	\$0.10	\$0.085	\$0.064

Magnetic Reed Switches

- NO (normally open)
- Contact form: SPST
- 171871CE:
- 500mA @ 100VDC
- Size: 0.53"L x 0.1"Dia.
- 164081CE:
- 1A @ 250VAC; 1A @ 50VDC
- Size: 1.43"L x 0.2"Dia.



Part No.	Cross Ref. No.	1	10	100	1000
171871CE	MKA14103	\$0.79	\$0.64	\$0.46	\$0.41
164081CE	MRS1 .....	.79	.63	.43	.39

Tri-State DIP Switch

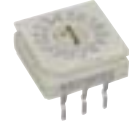
- Switch contacts: bussed, tri-state
- Labeled tri-state positions (+, 0, -)
- Contact rating: 24VDC @ 25mA
- Two isolated busses
- Compatible socket, use P/N 37372CE, pg 123
- 8 positions
- Pre-tinned leads



Part No.	Cross Ref. No.	1	10	50	100
138991CE	ETA108E	\$1.95	\$1.75	\$1.55	\$1.35

Rotary DIP Switch

- Fully sealed construction
- Rotor and switch body: plastic (UL94V-0)
- Contact and terminal material: copper alloy plated
- Code type: HEX
- Make and break current rating: 30mA @ 30VDC for 10,000 cycles
- 0.1" x 0.3" pin spacing (standard through hole)
- Top adjustment
- Size: 0.39"W x 0.39"D x 0.20"H
- 16-position



SALE

Part No.	Product No.	1	10	100	1000
215992CE	HAB16	\$1.29	\$1.18	\$1.07	\$0.97

Switch Assortment Kit

Includes:

- 20-drawer component cabinet (319599CE), 20 clear plastic drawers (319601CE), 20 clear dividers (319610CE), pg 273 and 30 adhesive labels for drawers to identify parts in kit
- 10 ea. miniature toggle switches (76523CE, 21936CE, 21910CE, 26331CE, 26315CE, 21979CE, 21952CE, 26366CE, 26358CE), pg 152
- 10 ea. slide switches (109170CE), pg 151
- 10 ea. pushbutton switches (26622CE, 26649CE), pg 147
- 10 ea. DIP switches (38818CE, 38842CE), pg 153
- 10 ea. tactile switches (153251CE), pg 154



SAVE \$51

Part No.	Description	Wt. (lbs.)	1	10
85059CE	150 pcs. switch kit	5.0	\$98.95	\$88.95

JAMECO ValuePro

DIP Switches



- Switch contacts: SPST
- Switches are numbered
- 50VDC @ 100mA
- Molded construction
- Standard switches have raised lever
- LP switches are flush to casing
- Pre-tinned leads



Compatible Socket Chart, see page 123 for Sockets

Switch	Socket	Switch	Socket	Switch	Socket
109058CE	112192CE	38827CE	37161CE	101857CE	38113CE
38819CE	51570CE	38842CE	37372CE	38798CE	38607CE
139003CE	51570CE	139011CE	37372CE	38800CE	39378CE
109057CE	112192CE	139002CE	51570CE	101856CE	38113CE
38818CE	51570CE	38826CE	37161CE	38797CE	38607CE
206359CE	51570CE	38834CE	37161CE		

Part No.	Cross Ref. No.	Pos.	Pricing			
			1	10	100	1000
109058CE	206-2	2	\$0.75	\$0.68	\$0.61	\$0.55
38819CE	206-4	4	.65	.55	.49	.45
139003CE	206-4LP	4	.79	.70	.55	.44
38827CE	206-6	6	.99	.89	.79	.72
38842CE	206-8	8	.89	.80	.72	.64
139011CE	206-8LP	8	.85	.76	.61	.47
101857CE	206-9	9	.85	.79	.69	.54
38798CE	206-10	10	.95	.86	.68	.59
38800CE	206-12	12	1.05	.99	.93	.62

Other Manufacturers — Great Deals						
109057CE	206-2*	2	\$0.69	\$0.61	\$0.56	\$0.51
206359CE	206-3*	3	.79	.65	.55	.413
38818CE	206-4	4	.48	.44	.40	.36
139002CE	206-4LP*	4	.73	.64	.51	.41
38826CE	206-6*	6	.91	.82	.73	.66
38834CE	206-7*	7	.95	.86	.77	.62
101856CE	206-9*	9	.78	.73	.61	.46
38797CE	206-10*	10	.87	.79	.71	.59

* Manufacturer may vary Blue Part No. = Limited Quantity Available

Switch Grab Bags



- 18235CE: 50 pcs. assorted – toggle, pushbutton, rocker and slide switches
- 135378CE: 1 lb. (approx. 135 pcs.) assorted – toggle, pushbutton, rocker and slide switches

Part No.	Cross Ref. No.	Wt. (lbs.)	1	10
18235CE	GB165	0.4	\$8.75	\$7.69
135378CE	GB165LB	1.0	18.95	16.95

Jameco's Got The Docs

We offer free technical documents for most of the products we carry. Find them easily on the product specification pages at www.Jameco.com

Series 82 - Modular Keyboard Keys

- Unlighted single button; gray
- For legend inserts
- 82-101-71, one button SPST
- 82-101-74, one button 4PST

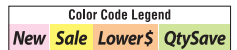
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See Our Selection of Modular Keyboard Keys at www.Jameco.com/Prod/GrayhillModularKeys

NEW
ON THE WEB



Tactile Switches and Keypads



Tactile Switches



Fig. 1

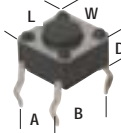


Fig. 2

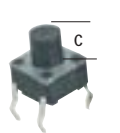


Fig. 3



Fig. 4



Fig. 5



Fig. 6



Fig. 7



Fig. 8



Fig. 9



Fig. 10

- Bounce time: 10 msec.
- SPST momentary ON
- Contact resistance: 100mΩ
- Lead type: PC

Part No.	Cross Ref. No.	Fig.	Pins	Dimensions (in.)				Lead Spacing		Contact Rating (mA @ VDC)	Button Color	Pricing			
				L	W	D	C	A*	B*			1	10	100	250
122972CE	DTS1212	1	4	.47	.47	.18	—	.20	.50	20 @ 15	Black	\$.26	\$.23	\$.19	\$.17
119010CE	KT11B1CM	2	8	.24	.24	.15	.30	.17	.25	20 @ 15	Black	.27	.24	.22	.20
149948CE	KT11P4CM	3	4	.24	.24	.15	.13	.17	.25	20 @ 15	Black	*	.23	.21	.19
115087CE	KIE22	4	2	.24	.24	.22	—	—	.25	20 @ 15	Blue	*	.25	.223	.204
199727CE	EVQ11A04M	7	2	.24	.24	.14	.30	.20	—	20 @ 15	White	.30	.221	.196	.187
200362CE	EVQPB04K	8	5	.24	.24	.14	.30	.17	.26	20 @ 15	Black	.29	.26	.23	.20
137189CE	PBS103	1	4	.47	.47	.17	—	.20	.50	50 @ 12	Black	.39	.35	.32	.19
153251CE	SDT620K	2	4	.24	.24	.15	.06	.17	.25	50 @ 12	Black	.29	.25	.20	.18
155248CE	KRS-3550-BK	5	2	.24	.14	.15	—	—	.27	50 @ 12	Black	.22	.20	.16	.15
155379CE	KRS-1273B	6	4	.47	.47	.14	.14	.17	.53	50 @ 12	Brown	.39	.35	.31	.26

* See switch caps below

Tactile Switch Caps*

Part No.	Cross Ref. No.	Fig.	Description	Size (in.)	Material	For Use With	10	100	250
155389CE	KRS-CAP-A	9	Square	.47"L x .47"W x .16"H	Plastic	P/N 155379CE	\$.15	\$.11	\$.10
155408CE	KRS-CAP-B	10	Round	.50"Dia. x .25"H	Plastic	P/N 155379CE	.15	.13	.11

Other Manufacturers — Great Deals



Part No.	Cross Ref. No.*	Fig.	Pins	Dimensions (in.)				Lead Spacing		Contact Rating (mA @ VDC)	Button Color	Pricing			
				L	W	D	C	A*	B*			1	10	100	250
199726CE	EVQ11A04M	7	2	.24	.24	.14	.30	.20	—	20 @ 15	White	\$.27	\$.199	\$.176	\$.168
155256CE	KRS-3550-WH	5	2	.24	.14	.15	—	—	.27	50 @ 12	White	.26	.14	.13	.12
206341CE	KPT1107A	5	2	.24	.14	.15	—	—	.25	50 @ 12	Beige	.23	.21	.19	.17
202956CE	KSM06330	8	2	.24	.24	.15	.38	.11	.18	50 @ 24	Red	.26	.15	.13	.12

* Manufacturer may vary

† 200362CE: with ground pin



Keyboard Switches

ML Series Notebook Profile

- Normally open contact
- 12 VAC/DC max, 2 VDC min.
- 10mA AC/DC max, 100µA DC min.
- Insulation resistance: 100MΩ @ 100 VDC
- Life: >20 million operations



NEW ON THE WEB

MX Series Desktop .60" Profile

- PCB or frame mount
- 12V max. AC/DC, 2 VDC min.
- Insulation resistance: >100MΩ @ 100 VDC
- Stainless steel spring



NEW ON THE WEB

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See Our Keyboard Switch Offering at www.Jameco.com/Prod/KbdSwitches



Rotary Switches



- Contact rating: 30VDC @ 0.3A
- Contact resistance: 30mΩ
- Material: solid brass bushings, slotted aluminum shafts, plated frame, phenolic wafer (except for P/N 101565CE – plastic casing)
- Compatible with Jameco rotary knobs P/N 102787CE and 104176CE, pg 164
- Insulation resistance: 10MΩ min.
- Lug size: 0.07"
- Mounting hole diameter: 3/8"
- Layers: 1
- Make before break
- Solder lugs
- Panel mount

Includes: Washer and nut

Part No.	Cross Ref. No.	Poles	Position	Shaft Size (L" x Dia.)	1	10	100
101531CE	RS0261	1	12	0.46 x 0.25	\$1.29	\$1.10	\$.82
101573CE	RS022	2	6	0.46 x 0.25	1.35	1.15	\$.86
101565CE	RS023	3	4	1.16 x 0.25	1.95	1.59	1.25
101557CE	RS024	4	3	0.46 x 0.25	1.09	.93	\$.69



16-Button Numeric Keypad



- 4 x 4 matrix keypad
- Contact rating: 24VDC @ 20mA
- Life test: 1,000,000 life cycles per key

- 8-position solder pad
- Contact resistance: 200Ω max.
- Size: 3.0"L x 2.8"W x 0.6"H

Part No.	Description	1	10	100
169244CE	Numeric keypad	\$7.95	\$6.95	\$6.25



B3F Series Miniature Tactile Key Switch

Miniature, low profile and easy mounting. Applications: audio, office & communications equipment, measuring instruments, TVs, VCRs, etc.



- Extended mechanical/ electrical service life
- Flux-tight base structure allows automatic soldering of the key switch onto a PC board
- Lead spacing: A = 0.18"; B = 0.26"
- Operating force: 188787CE general purpose 100g P/N 162886CE and high-force 260g
- Dimensions: 162886CE 4.3 mm x 6.5 mm 188787CE 7.3mm x 6.5mm

Part No.	Type	1	25	50	100
162886CE	B3F-1000	\$.45	\$.40	\$.36	\$.33
188787CE	B3F-1050	.35	.29	.21	.17



12-Button Telephone Keypads



- White plastic
- 8-pin .100" header
- Contact rating: 12VDC @ 20mA
- Contact resistance: 200Ω max.
- Tactile type keypad
- Life test: 1,000,000 cycles per key
- Size: 2.8"L x 2.2"W x 0.6"H

Part No.	Description	1	10	100
190561CE	Numeric keypad	\$8.75	\$7.45	\$5.59
153488CE	Alpha numeric keypad	9.49	8.55	7.69



16-Button Keypad Switch

- 1/2" button centers
- Flange mounted
- Top surface or sub-surface mounting
- Snap-dome contact provides positive feedback
- 4" x 4" grid
- Rating @ 24VDC: 10mA resistive
- Contact resistance: 10Ω maximum (compatible with MOS, TTL, and DTL)
- Voltage breakdown: 250VAC between mutually insulated parts
- Life expectancy: 3,000,000 operations per button

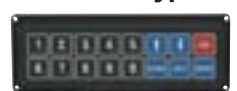


302025CE

Part No.	Product No.	1	10	100
302025CE	86BB2-006	\$18.55	\$16.79	\$16.15

16-Button Indoor/Outdoor Keypads

- 9-pin .100" headers
- Fully sealed snap-dome contact
- For indoor or outdoor use
- Contact rating: 24VDC @ 10mA resistive
- Life test: 3,000,000 cycles per key with MOS, TTL and DTL (10Ω max.)
- Recommended connector: P/N 103190CE header and P/N 100765CE pin, pg 124
- Size (housing): 4.7"W x 1.7"H x 0.4"T



196171CE



152063CE

* Prepackaged: order in increments of 10 or 100

Part No.	Description	1	10	100
196171CE	2x8 matrix keypad	\$16.95	\$15.29	\$13.75
152063CE	4x4 matrix keypad	14.95	13.49	11.95
103190CE	Header housing (10-pin)	.42	.39	.36
100765CE	Header pin (10 per pack)	*	.14	.11



Potter & Brumfield General Purpose Relays



- UL/CSA approved
- Industry standard termination for quick installation
- Contact arrangements from SPDT to 4PDT
- Wide range of coil voltages for industrial and commercial applications



Figure 1



Figure 2



Figure 3



Figure 4



Figure 5



Figure 6



Figure 7

Part No.	Product No.	Tyco No.	Figure	Contact Form	Coil Voltage	Coil Resistance (Ω)	Coil Current (mA)	Mating Socket*		Pricing			
								Standard	DIN Rail	1	10	25	50
282247CE	K10P-11A15-120	4-1393144-0	1	DPDT	120VAC	3,900	11	27E488/489	27E895	\$6.99	\$6.49	\$6.09	\$5.42
282255CE	K10P-11D15-12	5-1393144-5	1	DPDT	12VDC	160	75	27E488/489	27E895	7.25	6.90	6.54	5.90
282263CE	K10P-11D15-24	5-1393144-7	1	DPDT	24VDC	650	37	27E488/489	27E895	7.29	6.55	6.35	5.78
282280CE	KHAU-17A11-24	2-1393122-1	2	4PDT	24VAC	160	52	27E166	27E894	5.45	5.29	5.17	4.77
282271CE	KHAU-17A11-120	2-1393122-0	2	4PDT	120VAC	3,900	11	27E166	27E894	6.09	5.949	5.809	4.986
282301CE	KHAU-17D11-12	4-1393122-3	2	4PDT	12VDC	160	100	27E166	27E894	5.69	5.52	5.352	5.077
282319CE	KHAU-17D12-24	5-1393122-7	2	4PDT	24VDC	650	52	27E166	27E894	6.15	5.925	5.699	5.259
300943CE	KRPA-5AG-24	9-1393104-9	3	SPDT	24VAC	85	84	27E122	27E891	26.35	24.92	23.40	22.01
282431CE	KRPA-5AG-120	9-1393104-8	3	SPDT ^G	120VAC	2,250	17.5	27E122	27E891	16.45	15.84	15.23	14.06
300951CE	KRPA-5AY-120	1393105-1	3	SPDT ^Y	120VAC	2,250	17.5	27E122	27E891	24.55	23.26	21.84	20.06
300960CE	KRPA-5DG-12	1393105-3	3	SPDT	12VDC	120	100	27E122	27E891	18.15	17.99	17.83	17.35
282440CE	KRPA-5DG-24	1393105-4	3	SPDT	24VDC	472	51	27E122	27E891	17.65	16.52	15.42	13.95
300986CE	KRPA-11AG-6	2-1393104-8	3	DPDT	6VAC	6	335	27E122	27E891	16.19	15.72	15.25	14.08
282335CE	KRPA-11AG-12	2-1393104-4	3	DPDT ^G	12VAC	24	168	27E122	27E891	12.55	11.54	10.99	9.95
282351CE	KRPA-11AG-24	1-1393105-2	3	DPDT ^G	24VAC	85	84	27E122	27E891	10.79	10.37	9.87	9.10
282343CE	KRPA-11AG-120	2-1393104-5	3	DPDT ^G	120VAC	2,250	17.5	27E122	27E891	10.05	9.82	9.55	8.79
300994CE	KRPA-11AG-240	2-1393104-7	3	DPDT ^G	240VAC	9,110	8.75	27E122	27E891	17.95	17.42	16.88	15.58
301006CE	KRPA-11AN-12	3-1393104-1	3	DPDT ^N	12VAC	24	168	27E122	27E891	15.15	14.72	14.29	13.20
301014CE	KRPA-11AN-24	3-1393104-3	3	DPDT ^N	24VAC	85	84	27E122	27E891	17.25	16.50	15.77	14.57
282360CE	KRPA-11AN-120	3-1393104-2	3	DPDT ^N	120VAC	2,250	17.5	27E122	27E891	10.89	10.53	10.16	9.35
301022CE	KRPA-11AN-240	3-1393104-4	3	DPDT ^N	240VAC	9,110	8.75	27E122	27E891	14.75	13.83	12.91	11.68
301031CE	KRPA-11AY-24	3-1393104-7	3	DPDT ^Y	24VAC	85	84	27E122	27E891	15.69	15.24	14.79	13.65
301049CE	KRPA-11AY-120	3-1393104-6	3	DPDT ^Y	120VAC	2,250	17.5	27E122	27E891	11.55	11.05	10.56	9.75
301057CE	KRPA-11DG-6	4-1393104-7	3	DPDT	6VDC	22	188	27E122	27E891	13.09	12.90	12.70	12.36
282378CE	KRPA-11DG-12	4-1393104-3	3	DPDT ^G	12VDC	120	100	27E122	27E891	10.75	10.31	9.87	9.10
282386CE	KRPA-11DG-24	4-1393104-5	3	DPDT ^G	24VDC	472	51	27E122	27E891	12.25	11.65	11.30	10.51
301065CE	KRPA-11DG-48	4-1393104-6	3	DPDT	48VDC	1,800	26.6	27E122	27E891	16.35	15.79	15.24	14.06
301073CE	KRPA-11DG-110	4-1393104-2	3	DPDT ^G	110VDC	10,000	11.5	27E122	27E891	13.05	12.47	11.88	10.89
301081CE	KRPA-11DG-125	4-1393104-4	3	DPDT	125VDC	10,000	11.5	27E122	27E891	16.95	16.40	15.84	14.61
301090CE	KRPA-11DN-12	5-1393104-0	3	DPDT ^N	12VDC	120	100	27E122	27E891	15.75	15.58	14.62	12.99
282394CE	KRPA-11DN-24	5-1393104-1	3	DPDT ^N	24VDC	472	51	27E122	27E891	11.15	10.68	10.21	9.42
301102CE	KRPA-11DN-110	4-1393104-9	3	DPDT ^N	110VDC	10,000	11.5	27E122	27E891	17.65	17.18	16.71	14.85
301111CE	KRPA-11DY-24	5-1393104-7	3	DPDT ^Y	24VDC	472	51	27E122	27E891	12.55	11.77	10.99	9.95
301145CE	KRPA-14AN-24	7-1393104-4	3	3PDT ^N	24VAC	85	84	27E123	27E892	14.89	14.69	14.48	14.09
282415CE	KRPA-14AN-120	7-1393104-3	3	3PDT ^N	120VAC	2,250	17.5	27E123	27E892	13.45	12.88	12.30	11.37
301153CE	KRPA-14AN-240	7-1393104-5	3	3PDT ^N	240VAC	9,110	8.75	27E123	27E892	21.85	20.68	19.42	18.27
301129CE	KRPA-14AG-24	6-1393104-7	3	3PDT ^G	24VAC	85	84	27E123	27E892	11.09	10.64	10.17	9.75
282407CE	KRPA-14AG-120	6-1393104-5	3	3PDT ^G	120VAC	2,250	17.5	27E123	27E892	11.79	11.20	10.82	9.98
301137CE	KRPA-14AG-240	6-1393104-8	3	3PDT ^G	240VAC	9,110	8.75	27E123	27E892	19.35	18.84	18.33	17.72
301161CE	KRPA-14AY-24	7-1393104-8	3	3PDT ^Y	24VAC	85	84	27E123	27E892	18.25	17.84	16.75	15.76
301170CE	KRPA-14AY-120	7-1393104-7	3	3PDT ^Y	120VAC	2,250	8.75	27E123	27E892	18.25	17.49	16.72	15.43
301188CE	KRPA-14DG-12	8-1393104-2	3	3PDT	12VDC	120	100	27E123	27E892	13.95	13.55	13.16	12.21
282423CE	KRPA-14DG-24	8-1393104-4	3	3PDT ^G	24VDC	472	51	27E123	27E892	12.05	11.57	11.08	10.22
301196CE	KRPA-14DG-48	8-1393104-5	3	3PDT	48VDC	1,800	26.6	27E123	27E892	20.35	19.26	18.09	17.01
301209CE	KRPA-14DG-110	8-1393104-1	3	3PDT	110VDC	10,000	11.5	27E123	27E892	15.89	14.39	13.89	12.56
301217CE	KRPA-14DN-24	9-1393104-0	3	3PDT ^N	24VDC	472	51	27E123	27E892	12.49	11.97	11.44	10.55
282458CE	KUHP-11A51-120	6-1393114-9	4	DPDT	120VAC	1,700	24	—	—	11.09	10.89	10.85	10.75
282466CE	KUL-11A15S-120	2-1393115-6	5	DPDT	120VAC	3,700	30	27E121	27E893	34.05	31.24	29.81	26.97
282474CE	KUP-14A15-120	7-1393117-8	6	3PDT ¹	120VAC	1,700	24	27E121	27E893	10.49	10.19	9.89	9.20
282482CE	KUP-14A35-120	8-1393117-7	6	3PDT ²	120VAC	1,700	24	27E121	27E893	12.49	11.87	11.24	10.06
282503CE	KUP-14D15-24	1-1393118-4	6	3PDT	24VDC	472	51	27E121	27E893	11.45	10.72	9.99	9.07
282491CE	KUP-14D15-110	1-1393118-2	6	3PDT	110VDC	10,000	11	27E121	27E893	11.89	11.15	10.41	9.42
282538CE	R10-E1X4-V185	1-1393766-4	7	4PDT	12VDC	185	60	27E163	27E461	14.89	14.37	13.84	12.93

* For sockets see page 156 Y = Silver contacts, no indicator lamp G = Silver-cadmium oxide, no lamp N = Silver-cadmium oxide with lamp 1 = Plain case 2 = with indicator lamp

To Find Additional P&B Relays, Visit Our Website at www.Jameco.com/Prod/PBRelays



Relay Sockets



282132CE



282183CE



282124CE



282191CE

Relay Sockets for KRPA Series (Octal)

Part No.	Product No.	Contact Arr.	Pins	Type	1	10	25	50
282132CE	27E122	DPDT	8	Standard	\$3.95	\$3.80	\$3.66	\$3.26
282159CE	27E891	DPDT	8	DIN Rail	4.55	4.33	4.16	3.83
282141CE	27E123	3PDT	11	Standard	4.75	4.40	4.05	3.60
282167CE	27E892	3PDT	11	DIN Rail	7.89	7.33	6.77	6.02

Relay Socket for KHAU Series

Part No.	Product No.	Contact Arr.	Pins	Type	1	10	25	50
282183CE	27E894	4PDT	14	DIN Rail	\$6.75	\$6.48	\$6.20	\$5.51

Relay Sockets for KUP Series (11-blade square)

Part No.	Product No.	Contact Arr.	Pins	Type	1	10	25	50
282124CE	27E121	3PDT	11	Standard	\$6.99	\$6.49	\$5.99	\$5.32
282175CE	27E893	3PDT	11	DIN Rail	7.89	7.50	7.27	6.54

Relay Socket for K10 Series (8-blade square)

Part No.	Product No.	Contact Arr.	Pins	Type	1	10	25	50
282191CE	27E895	DPDT	8	DIN Rail	\$5.59	\$5.19	\$4.79	\$4.42

DIN Rail Mount Socket and Track Mounting System

For use with KHAU, KUP, and K10 series DIN relay sockets

282204CE: End clip insulator for preventing sockets from moving sideways or sliding off track

282108CE: Steel mounting clip with #6-32 screw (7/16")



Part No.	Product No.	Description	1	10	25	50
282204CE	40G432	Mounting plastic insulator	\$0.62	\$0.61	\$0.60	\$0.58
282108CE	24A071	Steel mounting clip	.52	.48	.46	.45
282116CE	24A110	36" mounting track	10.15	9.59	9.03	8.28

S89R Series Bistable, Impulse Relay

- Contact rating: 15A • Nominal power: 9W@25°C
- Contact life: 10 million operations; 50,000 mechanical operations
- Initial breakdown voltage: 1,500Vrms, 60Hz
- Dust cover with octal plug-in base • Current: 75mA



Part No.	Product No.	Voltage	Resistance	1	10	25	50
282546CE	S89R11APP1-120	120VAC	260Ω	\$57.65	\$56.05	\$54.22	\$38.97



DC Input/Output Modules

- DC input modules
- DC output modules
- Dry contact and mechanical relay output module



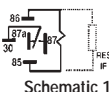
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See Complete Grayhill DC Relay Offering at www.Jameco.com/Prod/GrayhillDC

Potter & Brumfield Equivalent Plastic Enclosed Construction Relays

VF4 Type

- Dielectric strength: 500VDC (between contact & coil)
- Operating temperature: -35°C to +85°C
- Contact current: 40A • Terminal type: quick connect
- Coil voltage: 12VDC except P/N 171521CE (5VDC)
- Normally open (NO), normally closed (NC)
- Dimensions: 1.1"L x 1.1"W x 1.0"H



Schematic 1



Schematic 2



171432CE (Fig. 1)



171441CE (Fig. 2)



171459CE (Fig. 3)

Part No.	Cross Ref. No.	P&B Cross Ref. No.	Fig.	Contact Form	Coil Ohms	Contact Schematic	Contact Voltage	Pins	Pricing			
171459CE	LD1A-12F	VF4-81F11S01	3	SPST-NO	78	2	14VDC	4	\$1.89	\$1.75	\$1.55	\$1.29
171441CE	961A-1A12D	VF4-11F11	2	SPST-NO	90	2	14VDC	4	2.35	2.20	2.14	2.09
171521CE	LD5F	VF4-45D11	1	SPDT	14	1	5VDC	5	1.69	1.35	1.05	.93
148582CE	LD12F	VF4-85F11	1	SPDT	78	1	12VDC	5	2.49	2.25	1.95	1.75
171432CE	961A-1C-12DM	VF4-81F11	1	SPDT	90	1	12VDC	5	2.99	2.69	2.25	1.65

W58 Series Thermal Circuit Breakers

- Max. operating voltage: 50VDC; 250VAC 50/60Hz
- Interrupt capacity: 2,000A @ 50VDC; 1,000A @ 250VAC 50/60Hz
- Endurance cycling: >1,000 operations @ 200% of rating
- Dielectric strength: >1,500Vrms
- Push button to reset breaker



282597CE

Part No.	Product No.	Amp	Resistance	1	10	25	50
282562CE	W58-XB1A4A-10	10	0.014	\$3.29	\$3.21	\$3.12	\$3.06
282571CE	W58-XB1A4A-15	15	0.010	3.49	3.40	3.30	2.94
282589CE	W58-XB1A4A-20	20	0.006	3.55	3.43	3.31	2.94
282597CE	W58-XB1A4A-30	30	—	3.45	3.33	3.21	2.91

CNS Series Multifunction Time Delay Relays

- DPDT • Rating: 10A @ 30VDC or 277VAC
- Electrical life: 100,000 operations at rated load
- Dielectric strength: 1,000Vrms, 60Hz between open contacts; 1,500Vrms, 60Hz between all other conductors



Power requirement: 10W @ 240VAC/VDC;
5W @ 120VAC/VDC; 1W @ 25VAC/VDC

282212CE

Part No.	Product No.	Voltage	Timing Functions	Pins	1	10	25	50
282212CE	CNS-35-92	24-240VAC/VDC	4	8	\$67.89	\$62.23	\$56.57	\$53.34
282221CE	CNS-35-96	24-240VAC/VDC	8	11	79.05	75.46	71.87	69.76

CNT Series Multifunction, Digital Time Delay Relay/Counter

- Digital adjustment via thumbwheel switches
- Maximum count: 1 to 999; 10 to 9,990; 100 to 99,900
- Maximum count rate: 100 counts per second
- Rating: 10A @ 30VDC or 277VAC resistive
- Electrical life: 100,000 operations min. at rated load
- 11-pin octal style plug • DPDT
- Dielectric strength: 1,000Vrms, 60Hz between open contacts; 1,500Vrms between all other contacts



Power requirement: 10W @ 240VAC/VDC; 5W @ 120VAC/VDC; 1W @ 24VAC/VDC

Part No.	Product No.	Voltage	1	10	25	50
282239CE	CNT-35-96	24-240VAC/VDC	\$92.25	\$89.97	\$87.17	\$84.94

PRD Series Heavy Duty Open Relay

- SPDT • Expected life: 100,000 operations at rated load
- Contact rating: 25A @ 277VAC • Current: 85mA
- Nominal power: -9.8W @ 25°C • Resistance: 290Ω
- Auxiliary snap action switch rating: 5A @ 120VAC, 60Hz
- Initial breakdown voltage: 2,000Vrms min. between all elements and ground



Part No.	Product No.	Voltage	1	10	25	50
282520CE	PRD-5AY0-120	120VAC	\$20.85	\$20.08	\$19.31	\$17.47

ODC Series Input/Output Module Relay

- Switch form: SPST-NO • Resistance: 250Ω
- Isolation: 4,000Vrms, 60Hz
- Capacitance: 8pF typical (input to output)



Part No.	Product No.	Voltage	1	10	25	50
282511CE	ODC-5	5VDC/3-60VDC	\$9.15	\$9.00	\$8.85	\$7.65

Relay Socket with Coil Diode

VF4 Type

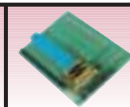
- For use with P/N 148582CE, left
- 12 AWG: 2 black & 1 blue wire; 18 AWG: 1 black & 1 red wire
- Contact voltage/current: 12V/20A
- Diode coil suppression • 7.5" wire



Part No.	Cross Ref. No.	1	10	50	100
170624CE	RSD03	\$2.35	\$2.15	\$1.89	\$1.55

Universal Relay Card

See page 281



Small High-Current PC Mount Relays

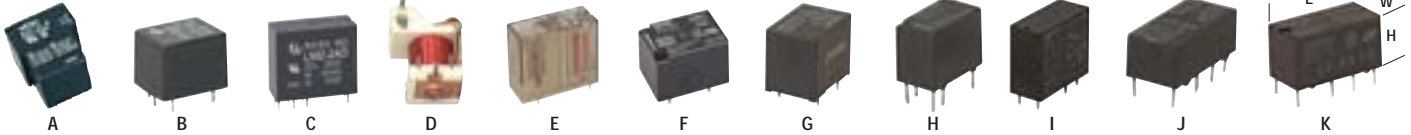
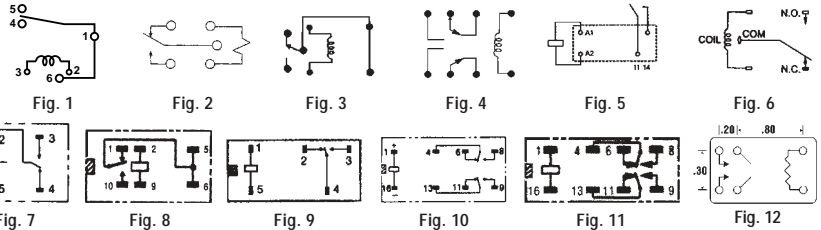
An inexpensive means of switching loads up to 30 amps. While these small, low-cost relays are designed primarily for the appliance industry and the heating, air conditioning and ventilation markets, they are also well suited for automotive load management and other applications.

- Meets UL class F insulation standard
- Mechanical life expectancy: 10 million operations
- Electrical life expectancy: 100,000 operations at rated loads
- Dielectric strength: 1500Vrms (between contact and coil)

104926CE: Open frame relay

129349CE: Immersion cleanable, plastic sealed case

144186CE: For use with universal relay card (P/N 128910CE, pg 281)



Part No.	Cross Ref. No.	Manufacturer	Potter & Brumfield Cross Reference	Fig.	Contact Form	Coil Voltage	Coil (Ohms)	Contact Voltage	Contact Current	Pins	L x W x H (in.)	Pricing			
145752CE	L90A-12W*	Rayex	T90S1D12-12	1A	SPST	12VDC	155	240VAC	30A	5	1.2 x 1.0 x .77	\$2.45	\$2.10	\$1.85	\$1.49
195864CE	RP838012	Schrack	—	5E	SPST	12VDC	270	250VAC	12A	4	1.1 x .48 x 1.0	1.35	1.09	.81	.57
134949CE	L90-5W	Rayex	T90S5D12-5	1A	SPDT	5VDC	27	240VAC/28VDC	20A	6	1.3 x 1.1 x .80	2.49	2.15	1.93	1.65
174449CE	LU-5	Rayex	T81H5D215	3B	SPDT	5VDC	125	120VAC/24VDC	1A/2A	6	.60 x .40 x .45	1.79	1.66	1.55	1.49
187151CE	G5LE-1DC5	Omron	—	7G	SPDT	5VDC	63	120VAC/30VDC	10A/8A	5	.90 x .65 x .75	1.49	1.30	1.15	1.09
187240CE	G5V-1-DC5	Omron	—	8H	SPDT	5VDC	166.7	125VAC/24VDC	.5A/1A	6	.50 x .30 x .40	2.05	1.79	1.59	1.50
104926CE	733SPDT12VDC*	Song Chuan	T90N5D12-12	1D	SPDT	12VDC	155	240VAC/28VDC	20A/10A	6	1.2 x .90 x .63	1.85	1.69	1.49	1.27
129349CE	832-IC-S	Song Chuan	T90S5D12-12	1A	SPDT	12VDC	155	277VAC/28VDC	20A/10A	6	1.2 x 1.0 x .75	2.15	1.90	1.69	1.39
186669CE	G2R-14-DC12	Omron	—	9I	SPDT	12VDC	275	250VAC/30VDC	10A	5	1.2 x .51 x 1.0	2.99	2.85	2.69	2.67
172937CE	JS1-12V	Nais (Aromat)	T72M5D121-12	6F	SPDT	12VDC	400	125VAC/24VDC	10A/5A	5	.85 x .62 x .63	1.09	.99	.89	.75
144186CE	JZC-22F	Velleman	VR15M121C	2B	SPDT	12VDC	337	120VAC/28VDC	15A	5	.80 x .64 x .80	3.79	3.39	3.05	2.75
174431CE	LEG-12F	Rayex	T7CS5D12	2B	SPDT	12VDC	400	120VAC/24VDC	15A	5	.76 x .62 x .60	1.49	1.29	1.19	1.09
184461CE	G5V-1-DC12	Omron	—	8H	SPDT	12VDC	960	125VAC/24VDC	.5A/1A	6	.50 x .30 x .40	2.25	1.79	1.58	1.42
187282CE	G6A-234PSTUSDC5	Omron	—	10J	DPDT	5VDC	125	125VAC/30VDC	.3A/1A	8	.80 x .33 x .40	3.95	3.63	3.33	3.07
174377CE	LM2-12D	Rayex	RKA5DZ12	4C	DPDT	12VDC	270	250VAC/30VDC	5A	8	1.2 x .48 x 1.0	2.49	2.25	1.95	1.75
187258CE	G5V-2-DC12	Omron	—	11K	DPDT	12VDC	288	125VAC/30VDC	.5A/2A	8	.81 x .40 x .45	2.49	2.28	2.02	1.82
200740CE	G5V-2-H1-24	Omron	—	11K	DPDT	24VDC	2800	125VAC/24VDC	.5A/1A	8	.81 x .40 x .45	2.29	2.06	1.65	1.24
215909CE	RKA-7DZ-12	P & B	—	12I	DPST-NO	12VDC	270	250VAC/24VDC	5A/5A	6	1.16 x .57 x 1.05	2.29	1.95	1.69	1.39

* Manufacturer may vary

JAMECO ValuePro **General Purpose Relays** **EXCLUSIVE**

LB2 Series

- Contact rating: 240VAC/30VDC @ 12A • DPDT
- Mechanical life: 10,000,000 operations • 8-pin
- Electrical life: 100,000 operations min. at rated load

Part No.	Mfg. P/N	P & B Cross Ref.	Coil Voltage	1	10	50	100
172718CE	LB2-12DS	K10-11D15-12	12VDC	\$4.99	\$4.49	\$3.99	\$3.59
175564CE	LB2-24DS	K10-11D15-24	24VDC	5.99	5.49	4.93	4.49
175572CE	LB2-110AS	K10-11A15-120	110VAC	6.25	5.49	4.99	4.39

LB4 Series

- Insulation resistance: 1,500MΩ @ 500VDC
- Mechanical life: 10,000,000 operations • 4PDT
- Contact rating: 240VAC/30VDC @ 5A • 14-pin
- Electrical life: 100,000 operations min. at rated load

Part No.	Mfg. P/N	P & B Cross Ref.	Coil Voltage	1	10	25	50
291506CE	LB4H-12DS	KHAU-17D12-12	12VDC	\$4.45	\$4.33	\$4.20	\$4.03
175601CE	LB4H-24DS	KHAU-17D12-24	24VDC	5.09	4.93	4.77	4.36
175610CE	LB4H-110AS	KHAU-17A12-120	110VAC	4.69	4.58	4.47	4.24

Relay Socket 175530CE 175556CE

- DIN rail snap socket for LB2 & LB4H relays

Part No.	Mfg. P/N	P & B Cross Ref.	Pins	1	10	50
175530CE	PTF-08A-A	27E895	8	\$5.95	\$5.39	\$4.85
175556CE	PYF-14A-A	27E894	14	3.95	3.49	2.95

KHAU Type Relay

- Insulation resistance: 1,500MΩ @ 500VDC • 4PDT • 14-pin
- Life: (mechanical) 10,000,000 operations; (electrical) 100,000 operations min. at rated load • Contact rating: 220VAC/24VDC @ 5A

Part No.	Cross Ref. No.	P & B Cross Ref.	Coil Voltage	1	10	25	50
183011CE	GM4PDT12DF	KHAU-17D12-12	12VDC	\$7.59	\$6.99	\$6.64	\$5.51

Beta Electric General Purpose Relays

Pin Type Terminals

- DPDT • 8-pin octal style plug
- Contact rating: 120/240VAC, 28VDC @ 10A
- Ambient operating temp.: -10°C to +50°C
- Size: 1.4"L x 1.4"W x 2.7"H

BTA1 Series Relays

Part No.	Product No.	NTE Cross Ref.	Coil Voltage	1	10	50
139766CE	BTA1-2C-12VDC	R02-11D10-12	12VDC	\$9.49	\$8.55	\$7.69
139740CE	BTA1-2C-120VAC	R02-11A10-120	120VAC	9.95	8.79	7.99

BTA1 Series Sockets (250VAC, 20Amps)

Part No.	Product No.	Pins	Dimensions	1	10	50
141145CE	PF-083A	8	2.0"L x 1.6"W x 0.8"H	\$3.99	\$3.65	\$2.99
141153CE	PF-113A	11	2.0"L x 1.7"W x 1.2"H	5.19	4.67	4.11

BTA2 Series Quick Connect Blade Terminal

Flat terminals (0.187" x 0.020") for standard plug-in mounting; also accepts quick-connect receptacles or direct soldering.

- Contact rating: 120VAC/28VDC @ 13A; 240VAC @ 10A
- Ambient temperature operating: -30°C to +50°C
- Size: 1.5"L x 1.4"W x 2.2"H • 3PDT • 11-pin

Part No.	Product No.	NTE Cross Ref.	Coil Voltage	1	10	50
139854CE	BTA2-3C-24VDC	R10-14D10-24	24VDC	\$8.69	\$8.63	\$8.39

BTA2 Series Socket

Part No.	Voltage	Current	Pins	Dimensions	1	10	50
141161CE	250VAC	20 amps	11	3.0"L x 1.4"W x 1.0"H	\$3.15	\$2.84	\$2.58

P&B Relay Series

Relay Series Offered:

- CG — CMOS IC time delay relays
- CNM5 — multi-function time delay relays for plug-in or
- CS — solid state hybrid voltage sensors
- KU — relays
- KUH — 30A power relays
- OACM — slim line input/output modules
- S87R — low cost 20A & 10A industrial relays
- SSRT — solid state relays with triac output
- SSR — solid state relays with paired SCR output
- SSRD — dual AC output solid state relays
- T90 — low cost 30A PCB relays
- T90H — 30A open or sealed PCB relays for automotive applications



NEW
ON THE WEB

Relay Series Offered:

- SSRQ — quad AC input SSR
- T92 — two pole 30A PC board or panel mount relays
- T9A — PC coil 30A PC board or panel mount relays
- W23/W31 — toggle or push-pull actuator
- W28 — push-to-reset-only fuse holder type
- IAC — input/output modules
- CNS — multi-function time delay relays
- KHU/KHS — general purpose dry circuit to 5A multicontact AC or DC relays
- RT — (DC coil) 16A PC board miniature relays
- T7C — 5A to 12A miniature power PCB relays



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crydom® Relay Controllers

PCV Series Analog Input Power Controllers

- Operating voltage: 100-240V_{RMS} @ 47-63Hz
- Control voltage range: 2-10VAC
- Power factor (min. with max. load): 0.5



LPCV Series Linear Proportional Load Controller

NEW
ON THE WEB

- Operating voltage: 100-240V_{RMS} @ 20-300Hz
- Control voltage range: 0-10VAC @ 4-20mA
- Optically isolated

These products ship from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

See Complete Relay Controller Offering at www.Jameco.com/Prod/CrydomControllers

crydom® AC Output Relays

- 25-125A loads
- 120-1200V
- Zero voltage and random turn-on switching



Available Series:

- Series 1, 2 & 3
- 53TP (3 Phase)
- A2440 & A2402
- AO/ASO Mini SIP
- CMD/CMA 24
- CW24
- CX
- D2W SIP
- Dual Relays
- H12D
- HA & HD
- HD4840
- MCX
- NTD/NTA
- S3010A
- T
- A48 and D48
- ASPF Mini SIP
- CS
- CW48
- CX241 Low-Profile SIP
- DAC, (S)MOAC & X40AC
- E2
- H12WD
- HA/HD60
- LS SIP
- MP
- PRG
- S3013A

NEW
ON THE WEB

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See Our Complete Crydom AC Relay Offering at www.Jameco.com/Prod/CrydomAC

crydom® SSR Power Modules

- 25 Amps • 400-1200V

Available Series:

- SPF Power FIN™
- PF Power FIN™
- B512FS-2T
- M252511F & FV
- M252512F & FV
- M252513F & FV (320VAC)
- PS120
- M252515F, FV & V
- PS240



NEW
ON THE WEB

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See Complete Crydom SSR Power Module Offering at www.Jameco.com/Prod/CrydomSSRs

crydom® Relay Accessories



Filters

- Designed to reduce EMI noise
- Single connection
- Max operating voltage: 275V_{RMS}

NEW
ON THE WEB

SSR Heat Sinks, Thermal Management

- Aluminum finished in chromate gold coating
- Mounting holes: 8-32 threaded

KS100 & KS300 Protective Covers

- Protection from electric shock
- Fits all standard Crydom SSRs

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See Our Complete Relay Accessory Offering at www.Jameco.com/Prod/CrydomAccessories

crydom® SCR Diode Modules

- 25-100A
- B-2T Series - AC or DC
- B512F, FE & FS Series
- F18 Series
- L Series - Low Profile
- M50 Series



NEW
ON THE WEB

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See Our Complete Crydom SCR Offering at www.Jameco.com/Prod/CrydomDiodes

crydom® Bridge Rectifiers

- 12A Single Phase
- B412F-2
- B412F-2T
- B412F-2T-YEB
- LF412F & LF413F



NEW
ON THE WEB

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See Our Crydom Bridge Rectifier Offering at www.Jameco.com/Prod/CrydomBridges

crydom® DC Relays

- 3-100A
- 0-60VDC
- Bipolar or MOSFET

Available Series:

- CMX
- CD-60
- DMP6101A
- IDC, (S)MIDC & X41IDC
- ODC, (S)MODC & X40DC
- D06D
- DO & DMO
- 1-DC
- MP
- MP240D2



NEW
ON THE WEB

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See Our Complete Crydom DC Relay Offering at www.Jameco.com/Prod/CrydomDC

crydom® DIP Relays

- DPA Series
- SDV
- SD1
- LAA110L
- PLA110, L, LS, LSTR, S & STR

These products ship from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

NEW
ON THE WEB



See Our Complete Crydom DIP Relay Offering at www.Jameco.com/Prod/CrydomDIP

See our complete Crydom product listing at: www.Jameco.com/Prod/Crydom

DC/AC and DC/DC Solid State Relays

- Screw terminal with hardware
- Photo isolation
- Metal mounting base
- Manufacturer may vary
- Zero crossing



176698CE
(Fig. 1)



153058CE
(Fig. 2)



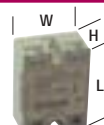
192815CE
(Fig. 3)



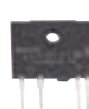
162341CE
(Fig. 4)



176735CE
(Fig. 5)



187004CE
(Fig. 6)



164996CE
(Fig. 7)



127790CE
(Fig. 8)

Part No.	Product No.	Mfr.	Control Voltage	Type	Contact Style	Contact Voltage	Contact Current	Pins	Fig.	Terminal Type	Agency Approval	Size L" x W" x H"	Pricing			
													1	10	50	100
Solid State Relays DC/AC Type																
153058CE	KSD203AC2	COSMO	4-32VDC	DC/AC	SPST	240VAC	3A	4	2	Solder Lead	—	1.4 x 0.3 x 0.9	\$9.95	\$8.95	\$7.95	\$7.25
162341CE	ESR51024-010	Excel	3-32VDC	DC/AC	SPST	240VAC	10A	4	4	Screw Terminal	UL	1.7 x 1.1 x 2.3	15.95	14.39	12.95	11.65
162368CE	ESR51024-025	Excel	3-32VDC	DC/AC	SPST	240VAC	25A	4	4	Screw Terminal	UL	1.7 x 1.1 x 2.3	21.95	19.79	17.79	16.05
162405CE	ESR51024-040	Excel	3-32VDC	DC/AC	SPST	240VAC	40A	4	4	Screw Terminal	UL	1.7 x 1.1 x 2.3	22.99	20.69	18.69	16.79
105081CE	615-8500 ♣	Teledyne	5-10VDC	DC/AC	SPST	250VAC	10A	4	3	Screw Terminal	UL	1.7 x 1.1 x 2.3	15.99	14.39	12.99	11.69
192815CE	KSD240AC8	COSMO	4-32VDC	DC/AC	SPST	250VDC	40A	4	3	Screw Terminal	—	1.8 x 0.6 x 2.3	17.15	15.58	14.17	13.75
175214CE	KB20C02A	Kyoto	3-32VDC	DC/AC	SPST	280VAC	2A	4	1	Solder Lead	—	1.4 x 0.3 x 1.5	5.95	5.69	5.32	5.05
127790CE	D2W202F	Crydom	3-32VDC	DC/AC	SPST	280VAC	2A	4	8	Solder Lead	UL/CSA	1.7 x 0.4 x 1.3	7.19	6.75	6.73	6.71
176698CE	KB20C06A	Kyoto	3-32VDC	DC/AC	SPST	280VAC	6A	4	1	Solder Lead	—	1.4 x 0.3 x 0.9	9.99	8.99	7.99	7.19
176719CE	KD20C40AX	Kyoto	3-32VDC	DC/AC	SPST	280VAC	40A	4	5	Screw Terminal	—	1.7 x 0.9 x 2.3	19.99	17.99	16.19	14.59
176735CE	KD20C75AX	Kyoto	3-32VDC	DC/AC	SPST	280VAC	75A	4	5	Screw Terminal	—	1.7 x 0.9 x 2.3	39.95	35.99	32.39	29.15
204441CE	TD2420Q	Crydom	4-15VDC	DC/AC	4PST	280VAC	20A	13	—	Solder Lead	UL/CSA	2.3 x 1.8 x 0.9	56.95	51.25	43.59	32.69
186992CE	G3NA-210B-DC5-24	Omron	5-24VDC	DC/AC	—	240VAC	10A	4	6	Screw Terminal	UL/CSA	1.7 x 1.1 x 2.3	14.29	13.55	12.89	12.25
187004CE	G3NA-220B-DC5-24	Omron	5-24VDC	DC/AC	—	240VAC	20A	4	6	Screw Terminal	UL/CSA	1.7 x 1.1 x 2.3	19.95	17.95	15.95	13.95
164988CE	S101S02	Sharp	1.2VDC@20mA	DC/AC	—	125VAC	1.5A	4	7	Solder Lead	UL/CSA	0.9 x .16 x .63	3.95	3.49	2.95	2.25
164996CE	S202TA1	Sharp	1.2VDC@20mA	DC/AC	—	200VAC	2.0A	4	7	Solder Lead	UL/CSA	0.9 x .16 x .63	4.95	4.49	4.05	3.65
Solid State Relay DC/DC Type																
172591CE	KF0602D	Kyoto	3-32VDC	DC/DC	SPST	60VDC	2A	4	1	Solder Lead	—	1.4 x 0.3 x 0.9	\$9.95	\$8.95	\$7.95	\$6.95
175222CE	KF0604D	Kyoto	3-32VDC	DC/DC	SPST	60VDC	4A	4	1	Solder Lead	—	1.5 x 0.3 x 0.9	11.95	11.25	10.25	9.22
176647CE	KG1005D	Kyoto	3-32VDC	DC/DC	SPST	120VDC	5A	4	5	Screw Terminal	—	2.3 x 1.7 x 0.9	26.99	24.29	21.79	19.59
176655CE	KG1010D	Kyoto	3-32VDC	DC/DC	SPST	120VDC	10A	4	5	Screw Terminal	—	2.3 x 1.7 x 0.9	29.99	26.99	24.29	21.89

☛ Pull = Extra Savings

DIP Relays

- Logic control levels
- Long life with reliable operation
- Moisture resistant
- Compatible with IC sockets
- Compact design/construction
- Excellent for PCB applications



106462CE



99901CE



206543CE



Fig. 1



Fig. 2

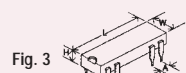
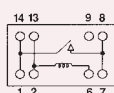
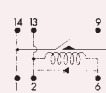


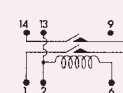
Fig. 3



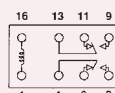
Schematic 1



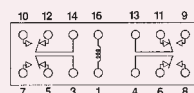
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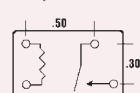
Schematic 3



Schematic 4



Schematic 5



Schematic 6

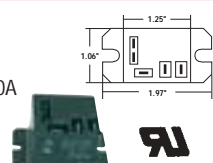
Part No.	Product No.	Manufacturer	Contact Schem.	Contact Form	Coil Voltage	Coil Ohms	Contact Voltage	Contact Current	Pins	Jameco Socket	Fig.	Size L x W x H (in.)	Leads A x B x C (in.)	Pricing			
														1	10	50	100
106462CE	201A05	Excel Cell Elect.	1	SPST-NO	5VDC	500	100VDC	0.5A	8	37161	3	.78 x .25 x .20	.10 x .40 x .30	\$2.15	\$1.81	\$1.52	\$1.25
138430CE	2D1A05	Excel Cell Elect.	2	SPST-NO	5VDC	500	100VDC	0.5A	8	37161	3	.77 x .30 x .22	.10 x .40 x .30	2.29	1.95	1.65	1.34
215896CE	OJE-SS-109LMF	OEG	6	SBT-NO	9VDC	400	250VAC/30VDC	3A/3A	4	—	1	.71 x .39 x .57	.50 x .60 x .30	2.29	1.95	1.69	1.39
106471CE	201A12	Excel Cell Elect.	1	SPST-NO	12VDC	1000	100VDC	0.5A	8	37161	3	.78 x .25 x .20	.10 x .40 x .30	2.29	1.95	1.65	1.39
138448CE	2D1A1200	Excel Cell Elect.	2	SPST-NO	12VDC	1000	100VDC	0.5A	8	37161	3	.77 x .30 x .22	.10 x .40 x .30	2.25	1.95	1.75	1.49
138456CE	202A05	Excel Cell Elect.	3	DPST-NO	5VDC	140	100VDC	0.5A	8	37161	3	.77 x .30 x .28	.10 x .40 x .30	3.49	3.15	2.69	2.19
173913CE	AZ831-2C-5DSE	American Zettler	4	DPDT	5VDC	125	125VAC/100VDC	.5A/1.25A	8	37401	1	.79 x .38 x .44	.18 x .28 x .29	2.35	2.15	1.69	1.25
139977CE	RSB5S	Shin Mei	4	DPDT	5VDC	125	120VAC/30VDC	1A/2A	8	37372	1	.79 x .39 x .37	.20 x .40 x .30	2.49	2.25	1.95	1.75
99338CE	LM12C00	Clare	4	DPDT	6VDC	71	125VAC/100VDC	2A	8	37372	1	.79 x .40 x .43	.20 x .40 x .30	2.49	2.25	1.79	1.35
99311CE	DS2Y-S-DC12V*	Aromat (NAIS)	4	DPDT	12VDC	720	110VAC/30VDC	.3A/1A	8	37372	1	.79 x .40 x .43	.20 x .40 x .30	2.49	2.31	2.05	1.75
99901CE	LX200D00	Clare	4	DPDT	12VDC	720	125VAC/100VDC	2A	8	37372	1	.79 x .40 x .30	.20 x .40 x .30	6.95	6.25	5.63	4.49
99320CE	LM12E00*	Clare	4	DPDT	24VDC	1110	125VAC/100VDC	2A	8	37372	1	.79 x .40 x .43	.20 x .40 x .30	2.95	2.69	2.39	2.15
136549CE	DS4E-M-DC5V*	Aromat	5	4PDT	5VDC	62.5	125VAC/30VDC	.6A/2A	14	112299	2	1.40 x .40 x .36	.20 x .30 x .30	5.49	4.95	4.45	4.05
176313CE	DS4E-M-DC12V	Aromat	5	4PDT	12VDC	360	125VAC/30VDC	.6A/2A	14	112299	2	1.40 x .40 x .36	.20 x .30 x .30	6.95	6.29	5.29	4.39
206543CE	DS4E-S-DC5V-1C-N137	Aromat	5	4PDT	5VDC	125	250VAC/220VDC	2A	14	112299	2	1.40 x .40 x .42	.20 x .30 x .30	3.79	3.45	3.15	2.85

*Manufacturer may vary ☛ Blue P/N = Limited Quantity Available

T9A Series Relay

Low Cost PC Board or Panel Mount Only

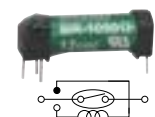
- Contact form: SPDT
- Contact current: 20A/10A
- Coil voltage: 12VDC
- 5-pin
- Contact volt.: 240VAC/28VDC
- Coil: 155Ω
- Terminal type: 0.1" disconnect (2); 0.25" disconnect (3)



Part No.	Cross Ref. No.	P & B Cross Ref.	Dimensions (LxWxH)	1	10	50	100
137357CE	953-IC-12DM	T9ASD52-12	2.0" x 1.6" x 1.8"	\$2.55	\$2.45	\$2.19	\$1.75

Reed Type Relay

- Manufacturer: Bestar
- Contact form: SPST-NO
- Coil voltage: 12VDC
- Coil: 1050Ω
- Contact voltage: 120VAC/60VDC
- Contact current: 0.1A
- Dielectric strength: 1500VDC (between contact and coil)
- 4-pin
- Operating temperature: -30°C to +60°C
- Terminal type: PCB solder



Part No.	Cross Ref. No.	Dimensions	<div>SALE</div>	1	10	50	100
111448CE	RC108T	1.0"L x .37"W x .38"H		\$.98	\$.89	\$.81	\$.74

1.2" (30mm) PCB Mountable Speaker

- Round frame design
- Mylar diaphragm
- Output SPL: 82 dB
- Pin spacing: 15mm
- Nominal input: 0.15W; max. input: 0.2W
- Ideal for PC board mounting
- Impedance: 8Ω
- Frequency range: 700 – 5000Hz



Part No.	Cross Ref. No.	Description	Dimensions	1	10	100
135722CE	PCMA15	Solder leads	1.2"Dia. x 0.5"D	\$2.15	\$1.79	\$1.59

Speaker Terminals

Make a solid connection with these push-release speaker terminals. Color-coded red/black connections for positive and negative side of speakers, screwmount plates for easy installation.

- Requires 1.92" round cut-out for recessed mounting



Part No.	Description	Size	Price
318641CE	Round speaker terminals	2.95" diameter	\$.43

Round Ferrite Speakers

- 320135CE: with 2" lead wires
- Pre-tinned speaker lugs
- Large magnet
- Anodized metal surfaces
- Braided copper voice coil leads
- Paper diaphragm

Quantity SAVE

For speaker wire, see page 93

Part No.	Mfg. P/N	Dimensions (Dia. " x D")	Input		Impedance (Ω)	Output SPL (dB)	Frequency Range (Hz)	Magnet Size (Dia. " x H")	Pricing		
			Nom (W)	Max (W)					1	10	100
320362CE	TRF-050F	2.0 x 0.7	0.25	0.5	8	86	320 – 4000	1.3 x 0.4	\$1.95	\$1.51	\$1.33
135589CE	FE200	2.0 x 0.7	0.2	0.4	8	83	420 – 5000	1.3 x 0.4	1.59	1.33	1.09
320135CE	C35128A	2.0 x 0.7	0.2	0.4	8	—	—	1.3 x 0.4	1.59	1.35	1.01
308267CE	GA0501M	2.0 x 0.8	0.25	0.5	8	85	500 – 7800	0.9 x 0.4	1.99	1.79	1.65
10840CE	FE201	2.2 x 0.7	0.2	0.4	8	88	400 – 4500	1.3 x 0.4	1.59	1.43	1.07
320354CE	TR-066F	2.6 x 0.9	0.25	0.5	8	85	440 – 3500	1.3 x 0.4	1.45	1.24	1.14



135589CE Side



135589CE Back

Square Ferrite Speakers

- Pre-tinned speaker lugs
- Large magnet
- Anodized metal surfaces
- Braided copper voice coil leads
- Paper diaphragm

Part No.	Mfg. P/N	Dimensions (Dia. " x D")	Input		Impedance (Ω)	Output SPL (dB)	Frequency Range (Hz)	Magnet Size (Dia. " x H")	Pricing		
			Nom (W)	Max (W)					1	10	100
135693CE	FEB200	2.0 x 0.7	0.2	0.3	8	82	500 – 6000	1.3 x 0.5	\$1.59	\$1.45	\$1.29
249463CE	66SF25	2.6 x 0.8	—	0.5	25	10	320 – 4000	1.3 x 0.5	2.49	2.09	1.59
31958CE	FEB216	2.6 x 0.8	0.2	0.4	16	85	330 – 8000	1.3 x 0.5	2.25	1.99	1.79
99995CE	FEB204	2.6 x 0.9	3.0	4.0	4	95	300 – 14000	1.8 x 0.5	2.49	2.25	1.99



99995CE Side



99995CE Back

Flat Element, Square Piezoelectric Speakers

- Excellent for alarms or other voice uses
- Stainless steel diaphragm

Part No.	Mfg. P/N	Dimensions (Dia. " x D")	Input		Impedance (Ω)	Output SPL (dB)	Frequency Range (Hz)	Element Size (Dia. " x H")	Pricing		
			Nom (W)	Max (W)					1	10	100
34024CE	AZ30S	1.2 x 0.2	0.4	0.8	8	70	1300 – 8000	1.2 x 0.1	\$1.69	\$1.52	\$1.35
76030CE	AZ40S	1.6 x 0.2	0.4	0.8	8	70	600 – 6000	1.6 x 0.1	1.95	1.75	1.49



34024CE Side



34024CE Back

Alnico Speakers

- For computer case use
- Paper diaphragm
- Wide frequency response
- Pre-tinned solder lugs
- Large magnet
- Impedance: 8Ω

Part No.	Mfg. P/N	Fig.	Dimensions (Dia. " x D")	Input		Output SPL (dB)	Frequency Range (Hz)	Magnet Size (Dia. " x H")	Pricing		
				Nom (W)	Max (W)				1	10	100
88410CE	A0200	1	2.0 x 0.8	0.2	0.4	87	430 – 4500	0.5 x 0.4	\$1.49	\$1.29	\$1.19
135765CE	RA2425	1	2.2 x 0.8	0.25	0.5	87	400 – 4000	0.5 x 0.4	1.59	1.35	.99
111587CE	B0102	2	1.7 x 0.6	0.1	0.3	83	500 – 5500	0.5 x 0.4	2.09	1.69	1.39
135811CE	A1527C02	3	1.6 x 2.8 x 1.2	2.0	5.0	82	450 – 20000	0.5 x 0.5	2.95	2.49	2.25

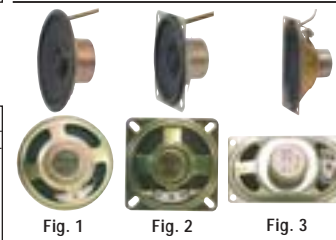


Fig. 1

Fig. 2

Fig. 3

Micro Speakers

Part No.	Mfg. P/N	Fig.	Dimensions (Dia. " x D")	Input		Output SPL (dB)	Frequency Range (Hz)	Magnet Size (Dia. " x H")	Pricing		
				Nom (W)	Max (W)				1	10	100
355514CE	GC0201M	1	0.79 x 0.17	0.1	0.2	78	500 – 20000	0.26 x 0.06	\$1.39	\$1.22	\$1.18
307871CE	GC0401M	1	1.57 x 0.67	0.2	0.3	80	600 – 8000	0.71 x 0.43	2.89	2.46	1.84
355522CE	GF0271M	1	1.06 x 0.30	0.1	0.2	82	500 – 20000	0.49 x 0.15	2.29	2.04	1.86
307854CE	GC0251KP*	2	1.0L x 0.55W	1.0	1.5	80	750 – 3500	0.43 x 0.08	1.85	1.57	1.18

* Rectangular micro speaker

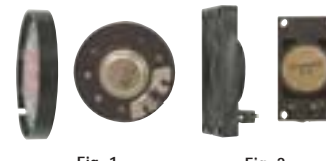


Fig. 1

Fig. 2

Microphone Cartridges

Omni-directional Electret Condenser Microphone Cartridges

Applications:

- Tape recorders, intercoms, hearing aids, telephone and answering devices, sonic controlled toys and sensors
- Modems for computers
- Used for recording, testing, and monitoring



160979CE



136573CE & 320178CE



320004CE



196488CE



140986CE

Part No.	Type	Sensitivity	Impedance	Frequency (Hz)	Max. Op. Volt. (VDC)	Stand Op. Volt. (VDC)	Current (Max.)	Sensitivity Reduction	S/N Ratio	Terminals	Size (H x Dia.)	Pricing			
												1	10	100	1000
160979CE	WM-64PKT	-44 ±3dB	>2.2kΩ	20-16,000	10V	2.0V	0.5mA	-3dB @ 1.5V	>58dB	PC pin leads	.10" x .24"	\$.72	\$.65	\$.52	\$.35
136573CE	WM-60PC	-54 ±2dB	>2.2kΩ	20-12,000	12V	4.5V	0.5mA	-3dB @ 3V	>40dB	PC pin leads	.30" x .38"	.53	.48	.43	.39
320004CE	YILI	-38 ±3dB	>2.2kΩ	20-16,000	10V	4.5V	0.8mA	-3dB @ 3V	>40dB	Lead wires	.23" x .38"	.64	.476	.259	1.94
320178CE	EM-99	-64 ±2dB	>2.2kΩ	20-12,000	12V	4.5V	0.5mA	-3dB @ 3V	>40dB	PC pin leads	.27" x .39"	1.49	1.25	.99	.81
196488CE	JL-061C	-58 dB	2kΩ	20-20,000	10V	2.0V	0.04mA	-3dB @ 1.5V	>55dB	Solder pad	.10" x .24"	1.29	.99	.89	.79
140986CE	CRM919	-64 ±3dB	1kΩ ±30%	20-10,000	12V	3.0V	0.8mA	-3dB @ 3V	>40dB	Lead wires	.90" x .39"	1.49	1.14	1.05	.89

Sonic Transducers and Buzzers

JAMECO ValuePro

Magnetic Transducers

Part No.	Cross Ref. No.	Fig.	Operating Volt. (Vp-p/mA)	Volt. Range (Vp-p)	Freq. (Hz)	Sound (dB)	Dimensions	Pricing			
								1	10	100	1000
207917CE	DB105GFPN	1	1.5/30*	1 – 2	2048	75	.22"H x .47"Dia.	\$1.49	\$1.34	\$1.14	\$0.85
138721CE	DB111A-PN	2	1.5/10*	1 – 2	2048	80	.32"H x .46"Dia.	1.49	1.34	1.14	.85
335636CE	PB-12N23P-05	3	5/50*	4.5 – 5.5	2300	85	10mm H x 12mm Dia	2.75	2.65	2.53	2.33
335644CE	PB-12N23P-12	3	12/50*	9 – 15	2300	85	10mm H x 12mm Dia	2.69	2.59	2.50	2.18
138739CE	DBX05-PN	2	5/40*	3 – 8	2400	85	.35"H x .46"Dia.	1.49	1.35	1.19	.99
106500CE	SBT-1205	2	5/40*	3 – 8	2400	85	.40"H x .48"Dia.	1.49	1.35	1.25	1.09
207950CE	UDX05CPN	3	5/100*	4 – 8	3100	85	.22"H x .35"Dia.	1.35	.99	.92	.83

* Applied voltage: 1/2 duty, square wave

Magnetic Buzzers

207984CE	TDB01	4	1.5/30	1.25 – 2	2300	75	.47"H x .38"Dia.	\$2.49	\$2.29	\$1.99	\$1.79
76064CE	TDB05-PN	4	5/30	4 – 7	2300	85	.35"H x .46"Dia.	2.99	2.79	2.69	2.59
207976CE	TDB12	4	12/30	8 – 15	2300	85	.47"H x .38"Dia.	2.49	2.39	2.29	2.19

Piezo Buzzers

336276CE	PT-1250W	6	3/1.5	2 – 5	1250	85	13mm H x 30mm Dia.	\$1.55	\$1.49	\$1.37	\$1.24
337210CE	SC628D	7	6–28/5–18	6 – 28	1900	75	1.28"H x 1.69"Dia.	10.45	9.72	9.09	8.54
336305CE	PT-2020P	8	5/1.5	5 – 30	2000	80	22mm W x 7.2mm D x 26.6mm H	1.29	1.25	1.19	1.07
336022CE	PK-27N26W	5	12/15	3 – 28	2500	90	10mm H x 30mm Dia.	3.49	3.39	3.24	2.99
335505CE	MAS800	10	12/50	9 – 12	2800	103	15.2mm H x 26mm Dia.	4.95	4.62	4.19	3.84
335530CE	MAS806	10	12/50	5 – 14	2800	103	15.2mm H x 26mm Dia.	5.85	5.55	5.44	5.05
336663CE	SC105	7	1–5/3–16	1 – 5	2900	75	1.28"H x 1.69"Dia	10.95	10.04	9.01	8.57
337535CE	SNP428	11	4–28/3–16	4 – 28	2900	76	.85"H x 1.64"Dia	9.35	8.63	8.00	7.48
336639CE	SBM616PU	12	6–16/3–12	6 – 16	2900	78	.62"H x 1.69"Dia	14.99	14.39	13.69	12.83
123537CE	11D3240	13*	24/20	4 – 28	2900	80	1.4"H x 1.7"Dia.	4.19	3.79	3.65	3.49
337383CE	SC628P	7	6–28/4–16	6 – 28	2900	80	1.84"H x 1.69"Dia	15.69	14.31	13.17	12.23
337359CE	SC628N	7	6–28/4–16	6 – 28	2900	90	1.28"H x 1.69"Dia	11.99	10.99	9.86	9.39
32601CE	11S3240	13	24/15	1 – 28	2900	95	1.4"H x 1.7"Dia	4.95	4.45	4.29	4.09
336989CE	SC616N	7 ^C	6–16/6–22	6 – 16	2900	95	1.28"H x 1.69"Dia	11.69	10.66	9.81	9.10
336997CE	SC616NJ	7 ^S	6–16/6–22	6 – 16	2900	95	1.28"H x 1.69"Dia	17.69	16.21	14.56	13.85
335556CE	MSR320	9	3–20/3–16	3 – 20	3400	80	.39"H x .91"Dia	2.55	2.38	2.16	1.98
76021CE	7S3240-LA	14	24/20	1.5 – 28	3200	95	1.0"H x 1.1"Dia	4.99	4.69	4.49	4.29
335695CE	PF-20A35EW	14 ^F	12/10	3 – 28	3500	95	25mmH x 28mm Dia	5.09	4.89	4.77	4.59
207992CE	SL15R3120LA	15	12/250	6 – 16	3500	105	2.3"L x 1.8"W x 1.6"H	6.95	6.29	5.99	5.75
336313CE	PT-2038FW	5	12/8	3 – 28	3800	85	4.5mm H x 24mm Dia.	1.15	1.09	1.05	.95
335927CE	PK-20A38P	3	12/15	3 – 24	3800	95	18mm H x 23mm Dia.	3.55	3.39	3.26	2.99
335564CE	MSR516N	3	5–16/3–14	5 – 16	3850	86	.39"H x .91"Dia.	3.99	3.79	3.43	3.15
138712CE	32S4120-PN	4	12/7	3 – 16	4000	80	.30"H x .54"Dia.	2.49	2.25	2.09	1.56
196357CE	AL-175	4	12/5.8	3 – 16	4000	86	.30"H x .54"Dia.	2.69	2.45	2.29	1.71
335855CE	PK-12N40P	3	12/10	3 – 15	4100	83	8mm H x 14mm Dia.	3.29	3.07	3.05	2.69

* Dual tone ^C = Continuous tone ^S = Slow pulse ^F = Fast pulse [⚡] Blue P/N = Limited Quantity Available

Mechanical/Electromechanical Buzzers

24871CE	63S109LA	16	9/30	6 – 12	400	75	1.3"L x 0.7"W x 0.6"H	\$2.49	\$2.19	\$1.99	\$1.79
140695CE	63S1120-LA	16	12/25	9 – 15	400	75	1.3"L x 0.7"W x 0.6"H	1.99	1.79	1.69	1.59
105822CE	CLB27	17	9/220	—	500	80	1.3"H x 2.0"Dia	1.39	1.29	1.25	1.19

Piezo Sirens

336188CE	PS-520	15	12/200	5 – 15	3000	105	40mm W x 57.5mm D x 44.5mmH	\$8.99	\$8.75	\$8.05	\$7.34
207888CE	18R3120	18	12/120	9 – 15	1500-3100	105	3.4"L x 2.2"W x 1.3"H	5.99	5.79	5.49	5.29
336225CE	PS-562	19	12/40	5 – 15	2500/3500	100	16mm H x 42mm Dia	5.05	4.92	4.53	4.13

Surface Mount Electromechanical Buzzers

335388CE	AST500	21	1.5/50	1.2 – 3	2400	85	12.8mm Sq. x 10mm H	\$2.95	\$2.85	\$2.72	\$2.48
335417CE	AST605	21	5/40	4 – 8	2400	87	12.6mm Sq. x 7mm H	2.29	2.28	2.27	2.16
335345CE	ASI301	21	5/30	4 – 7	2400	90	12.6mm Sq. x 10mm H	2.99	2.78	2.59	2.24
335353CE	ASI401	21	12/30	8 – 15	2400	90	12.6mm Sq. x 10mm H	1.79	1.75	1.63	1.49



Fig. 1

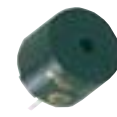


Fig. 2



Fig. 3



Fig. 4



Fig. 5



Fig. 6



Fig. 7



Fig. 8



Fig. 9



Fig. 10



Fig. 11



Fig. 12



Fig. 13



Fig. 14



Fig. 15



Fig. 16



Fig. 17



Fig. 18



Fig. 19



Fig. 20



Fig. 21

Electromech

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Speco Audio Accessories



Attenuators

- Mono attenuators • Wall mount

Volume Controls

- 10W, 50W, 100W
- Monaural volume level controls for stereo
- Impedance matching

Transformers with Multiple Taps

- 25 & 70V • 5W & 10W
- Color coded leads

Stereo Selector Switch

- Select from 3 sources for 1 input

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NEW
ON THE WEB

24VDC Liquid Level Sensors

Combine the control box and sensor to activate a water valve. When sensor is triggered by a tank in either full or empty condition, it will trigger an output status change.

176250CE (Empty)

- Diameter: 1.0"
- Overall Length: 3.9"
- Travel Distance: 2.0"



176268CE (Full)

- Diameter: 1.1"
- Overall Length: 2.6"
- Travel Distance: .72"

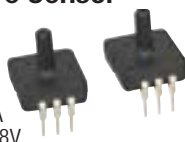


Part No.	Description	1	10	25
176250CE	Sensor empty type	\$7.39	\$6.70	\$6.09
176268CE	Sensor full type	6.79	6.17	5.61



-1.1 to 2.5 PSI Pressure Sensor

- Measurable pressure range: -1.1 to 2.5 PSI
- Maximum load pressure: twice rated pressure
- Operating voltage: 5V @ <10mA
- Maximum excitation voltage: 8V
- Pressure type: gauge pressure • Volt-level output
- Pressure media: non-corrosive gas
- On-chip amplification and temp. compensations
- Pre-calibration of offset voltage and span
- 1/8" diameter tubing is applicable
- Size: .55"L x .47"W x .20"H



SALE

Part No.	Product No.	1	10	100
196103CE	XFPN-025-KPGRNW1	\$24.95	\$21.25	\$15.95

0 to 1.45 PSI Pressure Sensor

- Typical full scale span @ 35mV: 0-10kPa (0-1.45 PSI)
- Maximum pressure (P_{MAX}): 75kPa (10.875 PSI)
- Operating volt. (typical): 3VDC @ 6mA
- Applications: air movement control, level indicators, leak detection, robotics and industrial controls • 1/8" diameter tubing applicable
- Size: 0.7"Dia. x 0.78"Thick (with nozzle)



Part No.	Product No.	1	10	100
218827CE	MPX10GS	\$8.99	\$7.99	\$7.19



Inductive Proximity Switch Sensors

Cylindrical and Square Styles

- Operating voltage range: 10-30VDC
- Nominal operating voltage: 12VDC
- Normally open output • Switching frequency: 1.5kHz
- Current consumption: 10mA max. • 6' long cable
- Sensing target: inductive type – magnetic metal
- Sensing distance: ±10% (tin) • Fast response
- Short circuit protected • LED status indicator
- Pre-tinned pigtail

155547CE
(17mm)

248858CE
(12mm)

167020CE
(12mm)

155571CE
(18mm)

Part No.	Product No.	Output Circuit	Effec. Dist. (Iron)	Standard Target (Iron) (mm)	Size (L" x Dia. ")	Mounting Hole (in.)	Pricing		
							1	10	25
155547CE	S18-05N-1	NPN	0-4.0mm	18 x 18 x 1	1.4"Lx1.4"Wx0.7"H	0.112	\$9.95	\$8.95	\$7.95
167020CE	TS12-02N-1	NPN	0-1.6mm	12 x 12 x 1	1.8" x 0.46"	0.46	20.65	18.61	16.75
248858CE	TS12-02P-1	PNP	0-1.6mm	12 x 12 x 1	1.8" x 0.46"	0.46	19.99	17.99	15.99
155571CE	TS18-05N-1	NPN	0-4.0mm	18 x 18 x 1	1.6" x 0.70"	0.70	24.95	22.46	20.21
421147CE	CS12-02N-1	NPN	0-1.6mm	12 x 12 x 1	2.2" x 0.83"	0.67	44.29	37.82	34.04
421155CE	CS12-05N-1	NPN	0-0.4mm	12 x 12 x 1	2.4" x 0.88"	0.67	53.29	45.52	40.97
421163CE	CS18-05N-1	NPN	0-0.4mm	18 x 18 x 1	2.1" x 1.10"	0.95	47.05	40.18	36.18
421171CE	CS18-08N-1	NPN	0-6.4mm	18 x 18 x 1	2.4" x 1.10"	0.95	54.49	48.16	43.34
421180CE	CS30-10N-1	NPN	0-12mm	30 x 30 x 1	2.3" x 1.40"	1.40	46.49	39.71	35.72
421198CE	CS30-15N-1	—	0-12mm	30 x 30 x 1	2.7" x 1.40"	1.40	54.95	46.93	42.24
421201CE	TS12-05N-1	NPN	0-4.0mm	12 x 12 x 1	2.5" x 0.80"	0.66	39.19	33.45	30.10
421219CE	TS18-08N-1	NPN	0-6.4mm	18 x 18 x 1	2.4" x 1.10"	0.94	40.09	34.23	30.81
421227CE	TS30-10N-1	NPN	0-8.0mm	30 x 30 x 1	2.4" x 1.40"	1.40	40.39	34.50	31.05
421235CE	TS30-15N-1	NPN	0-12mm	30 x 30 x 1	2.7" x 1.40"	1.40	62.39	53.30	47.97
421243CE	S17-05N-1	NPN	0-4mm	17 x 17 x 1	1.1" x 0.66"	0.98	16.65	14.04	13.34
421251CE	S25-07N-1	NPN	0-5.6mm	25 x 25 x 1	1.4" x 1.50"	0.98	24.75	21.12	19.01

Photo Electric Sensors

Part No.	Product No.	Output Circuit	Effec. Dist. (Iron)	Standard Target (Iron) (mm)	Size (L" x Dia. ")	Mounting Hole (in.)	1	10	25
421260CE	WE-T3AD*	NPN	0-5.0m	≥8mm Dia.	2.6" x 0.708"	.710	\$86.05	\$73.48	\$67.13
421278CE	WE-M3D*	NPN	0-2.0m	>10-40mm Dia.	2.6" x 0.708"	.710	50.95	43.48	39.13
421286CE	WE-R3AL†	NPN	0-200mm	—	2.6" x 0.708"	.710	49.19	42.00	37.80
421294CE	WE-R3BL†	NPN	0-80mm	15-44mm	2.6" x 0.708"	.710	49.19	42.00	37.80
421307CE	WE-U3L†	NPN	10-30mm	18-22mm	2.6" x 0.708"	.710	58.59	52.74	47.47

* Dark-on † Light-on

Ultrasonic Sensor Sets

- Use for motion or distance sensing
- Frequency: 40kHz ±1.0kHz
- Aluminum case



- 136653CE: Transmit/Receive Set
- Capacitance: 2000pF ±30%
- Transmitter: bandwidth 4.0kHz @ 112dB, sound pressure level 119dB @ 40±1.0kHz
- Lead length/spacing: 0.39"
- Receiver: bandwidth 3.5kHz @ -71dB, min. sensitivity 65dB @ 40±1.0kHz (R=3.9kΩ)
- Case size: 0.47"H x 0.62" Dia.
- 139491CE: Transmit/Receive Set
- Capacitance: 2000pF ±20%
- Lead length/spacing: 0.28"
- Transmitter: bandwidth 5.0kHz @ 100dB, sound pressure level 112dB @ 40 ±1.0kHz
- Receiver: bandwidth 5.0kHz @ -75dB, min. sensitivity 67dB @ 40 ±1.0kHz (R=3.9kΩ)
- Case size: 0.30"H x 0.43" Dia.



Part No.	Mfg. P/N	1	10	50
136653CE	40TR16F	\$6.95	\$6.29	\$5.65
139491CE	40TR12B	6.95	6.29	5.65

Latched Hall-Effect Sensor

- SP (south pole): on
- NP (north pole): off
- Supply voltage: 3-20V
- Supply current: 4mA
- Output current: 20mA
- Max. operating point: ≤ 130
- Max. release point (gauss): ≤ 130



Part No.	Cross Ref. No.	1	10	100	1000
174043CE	HI-300	\$.95	\$.86	\$.77	\$.59

Vibration/Tilt Switch Sensor

Detects motion or vibration when the switch is mounted such that its main axis is near to the horizontal.

- Max contact load: 24VDC/115VAC @ 0.5A
- Typical contact resistance: 1Ω • SPDT (measured at 5VDC @ 0.01A with switch tilted 45° beyond operating point)
- Tilt: one plane only; ±10 deg. included angle
- Minimum operating temperature: -37°C



Blue Part No. = Limited Quantity Available

Part No.	Cross Ref. No.	1	10	100
235926CE	Series 3004	\$.99	\$.91	\$.82

GS1001/GS1002 Industrial Grade Geartooth Speed Sensors

- Senses motion of ferrous geartooth targets
- Immune to hostile environments
- Operating voltage range: 4.5 to 24 VDC



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See Complete Cherry Sensors Offering at www.Jameco.com/Prod/CherrySensors

GS1005/GS1007 Commercial Grade Geartooth Speed Sensors

- For commercial environments
- Senses motion of ferrous geartooth targets
- Operating voltage range: 4.5 to 24 VDC



NEW
ON THE WEB



Magnetic Speed and Proximity Sensors

NEW
ON THE WEB

GS1012 — Flange Mount Geartooth Speed Sensors

- Senses motion of ferrous geartooth targets
- Near zero speed sensing capability
- Immune from hostile environments
- Operating voltage range: 5 to 24VDC
- Supply current (max.): 6mA
- Output saturation voltage (max.): 400mV
- Output current (max.): 25mA



SD1002 — Geartooth Speed and Direction Sensors

- Senses motion & direction of ferrous geartooth targets
- Separate digital outputs for speed & direction
- Immune from hostile environments
- Reverse battery protection to -24VDC
- Operating voltage range: 4.75 to 24VDC
- Supply current (max.): 17mA
- Output saturation voltage (max.): 400mV



MP1001 — Industrial Grade Magnetic Proximity Sensors

- Immune from hostile environments
- Reverse battery protection to -24VDC
- Sourcing or open collector output
- Operating voltage range: 5 to 24VDC
- Supply current (max.): 12mA
- Output saturation voltage (max.): 700mV



MP1005/MP1007 — Commercial Grade Magnetic Sensors

- Anodized aluminum housing
- Sourcing or open collector output
- South pole sensitive
- Operating voltage range: 4.75 to 24VDC
- Supply current (max.): 12mA
- Output saturation voltage (max.): 700mV
- Output current (max.): 25mA



MP1013 — Snap-Fit Magnetic Proximity Switches

- Solid state reliability
- Digital output compatible with all logic families
- Operating voltage range: 4.75 to 24VDC
- Supply current (max.): 9mA
- Output saturation voltage (max.): 400mV
- Output current (max.): 25mA



MP1021 — Flange-Mount Digital Magnetic Proximity Sensors

- Suitable for high speed sensing
- Operated by north pole of a magnet
- Reverse battery protection
- Operating voltage range: 4.5 to 24VDC
- Supply current (max.): 12mA



MP2007 — Magnetic Sensors (Aluminum Threaded Housing)

- Immune to hostile environments
- Zero power consumption
- Suitable for DC/AC circuit
- Breakdown voltage minimum: 200VDC
- Contact resistance (max.): 0.2Ω



MP2017 — Cylindrical Magnetic Reed Sensors

- Hermetically sealed
- Zero power consumption
- Resistant to moisture and dirt
- Breakdown voltage minimum: 200VDC
- Contact resistance (max.): 0.2Ω



MP2018 — Magnetic Mini Flange Reed Sensors

- Hermetically sealed
- Zero power consumption
- Resistant to moisture and dirt
- Breakdown voltage minimum: 200VDC
- Contact resistance (max.): 0.2Ω



MP2019 — Magnetic Flange-Mount Reed Sensors

- Immune to hostile environments
- Hermetically sealed
- Suitable for DC/AC circuit
- Zero power consumption
- Breakdown voltage minimum: 200VDC



VN1015 — Digital Vane Switch Sensors

- Immune to moisture and dust
- Reverse battery protection to 24VDC
- Open collector output compatible with all logic families
- Glass filled polyester body



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Alcoswitch Knobs, Molded Phenolic

PH Series

- Straight knurl-less indicator line

PK Series

- Straight knurl with dot indicator on skirt
- Ribbed with line indicator on skirt
- Ribbed with skirt and pointer with indicator line
- Fluted with indicator line on skirt
- Straight knurl aluminum skirt with arrow indicator
- Straight knurl skirt with 0-10 numerals
- Fluted with indicator line, 6-32 set screw
- Fluted with skirt and indicator line, 6-32 set screw
- Plain quadrate with indicator line & arrow, 6-32 set screw
- Ribbed with indicator line, 6-32 set screw
- Ribbed with bar pointer and indicator line
- Straight knurl with bar pointer & indicator line and aluminum spin cap
- Straight knurl with indicator line on skirt
- Straight knurl aluminum skirt has line or 0-9 numbers



- Choice of indicator line or 0-9, 0-10, -5+5 numerals
- Straight knurl with aluminum skirt choice of arrow or 1-10 numbers

Knobs, Machined Aluminum

- Diamond knurl with indicator line
- Straight knurl with indicator on skirt
- Straight knurl with top and side indicator
- Straight knurl with & without "fingertip" spinner
- Straight knurl with & without indicator line diameter dimensions
- Straight knurl with arrowhead indicator on skirt
- Straight knurl with pointer and indicator line
- 3 fluted design with aluminum skirt and indicator line

NEW
ON THE WEB

Knob Accessories

- Shaft hole size adapters



Toggle Switches, Hardware & Accessories

- Perfect fit decorative mounting hardware

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Color Instrumentation Knobs (1/4" Shaft Diameters)

- JK-907 series: pressure fit type, top set screw; JK-905 series: side set screw
- CR-MS series for knurled shaft
- All photos on www.Jameco.com



Part No.	Cross Ref. No.	Body Color	Pointer Color	Size (H" x Dia.)	1	10	100
264823CE	CPBTAA191A1S6.4BK	Black/Black	White	.79 x .77	\$.99	\$.93	\$.88
264786CE	CPBTAA191A1S6.4RD	Black/Red	White	.79 x .77	.99	.93	.88
264794CE	CPBTAA191A1S6.4YW	Black/Yellow	White	.79 x .77	.99	.93	.88
264807CE	CPBTAA191A1S6.4BL	Black/Blue	White	.79 x .77	.99	.93	.88
264815CE	CPBTAA191A1S6.4GN	Black/Green	White	.79 x .77	.99	.93	.88
264831CE	CPBTAA191A1S6.4GY	Black/Grey	White	.79 x .77	.99	.93	.88
265156CE	JK-907A-BL	Grey/Blue	Blue	.76 x 1.27	1.99	1.87	1.78
265130CE	JK-907A-RD	Grey/Red	Red	.76 x 1.27	1.99	1.87	1.78
265148CE	JK-907A-YW	Grey/Yellow	Yellow	.76 x 1.27	1.99	1.87	1.78
265181CE	JK-907B-BL	Grey/Blue	Blue	.86 x .94	1.99	1.87	1.78
265172CE	JK-907B-YW	Grey/Yellow	Yellow	.86 x .94	1.99	1.87	1.78
265164CE	JK-907B-RD	Grey/Red	Red	.86 x .94	1.99	1.87	1.78
265199CE	JK-907C-RD	Grey/Red	Red	.72 x .68	1.99	1.87	1.69
265201CE	JK-907C-YW	Grey/Yellow	Yellow	.72 x .68	1.99	1.87	1.78
265210CE	JK-907C-BL	Grey/Blue	Blue	.72 x .68	1.99	1.87	1.78
265050CE	JK-905A	Black/Red	White	.58 x .57	.92	.73	.66
265068CE	JK-905B	Black/Yellow	White	.58 x .57	.92	.73	.66
265076CE	JK-905C	Black/Blue	White	.58 x .57	.92	.73	.66
265084CE	JK-905D	Black/Green	White	.58 x .57	.92	.73	.66
265017CE	JK-904A	Black/Red	White	.47 x .78	.99	.93	.88
265025CE	JK-904B	Black/Yellow	White	.47 x .78	.99	.93	.88
265033CE	JK-904C	Black/Blue	White	.47 x .78	.99	.93	.88
265041CE	JK-904D	Black/Green	White	.47 x .78	.99	.93	.88
265261CE	CR-MS-5C5-T18*	Grey	Grey	.68 x .51	.78	.67	.61
265252CE	CR-MS-4C5-T18*	Grey	Green	.68 x .51	.78	.67	.61
265244CE	CR-MS-3C5-T18*	Grey	Blue	.68 x .51	.78	.67	.61
265236CE	CR-MS-2C5-T18*	Grey	Yellow	.68 x .51	.78	.67	.61
265228CE	CR-MS-1C5-T18*	Grey	Red	.68 x .51	.78	.67	.61

* For use with 1/4" knurled shaft

Hardware and Spacer Assortment Kit

Includes 2300 pcs. (23 types) Spacers, Nuts, Flat, Tooth & Lock Washers and Slotted PH Screws

SAVE \$36

100 each Spacers	100 each Hex nuts	100 each Flat	100 each Int. tooth	100 each Split lock	100 each PH machine screws
—	2-56	—	—	#2	2-56 x 1/4, —
4-40	4-40	#4	#4	#4	4-40 x 1/4, 1/2
6-32	6-32	#6	#6	#6	6-32 x 1/4, 1/2
8-32	8-32	#8	#8	#8	8-32 x 1/2, —

Part No.	Description	Wt. (lbs.)	1	10
108433CE	2300 pcs. Hardware kit	7.5	\$55.95	\$50.36
130497CE	Refill for 108433CE (2300 pcs.)	2.7	39.95	35.95



Black Instrumentation Knobs (1/4" Shaft Diameters)

- Set screw for secure attachment
- RN-112A/113A/114A: Numeric dial type



Part No.	Cross Ref. No.	Body Color	Pointer Color	Size (H" x Dia.)	1	10	100
265092CE	JK-906A	Black	White	.72 x 1.39	\$1.09	\$.87	\$.80
265105CE	JK-906B	Black	White	.79 x .95	1.02	.71	.65
265113CE	JK-906C	Black	White	.64 x .82	.83	.62	.57
265121CE	JK-906D	Black	White	.58 x .61	.68	.55	.54
264997CE	JK-902A	Black	White	.69 x 1.31	.74	.57	.53
265009CE	JK-902B	Black	White	.60 x .95	.69	.47	.44
264920CE	JK-901A	Black/Alum	White	.79 x 1.77	1.34	1.16	1.05
264946CE	JK-901B	Black/Alum	White	.64 x 1.29	.90	.71	.65
264954CE	JK-901C	Black/Alum	White	.61 x 1.06	.75	.59	.54
264989CE	JK-901D	Black/Alum	White	.47 x .78	.68	.53	.48
264882CE	RN-112A	Black/Alum	Numeric	.90 x 1.46	.99	.93	.88
264891CE	RN-113A	Black/Alum	Numeric	.70 x 1.15	.99	.93	.88
264911CE	RN-114A	Black/Alum	Numeric	.58 x 1.46	.99	.93	.88
102787CE	JK-903C	Black	White	.54 x 1.25	.64	.41	.39
104176CE	JK-902C	Black	White	.49 x .75	.99	.85	.65
202286CE	CP-Z1-M-S	Black/Alum	White	.60 x .80	.79	.69	.64
136240CE	GKB-214	Black/Alum	White	.52 x .54	.65	.55	.49
138392CE	41108-1	Black/Alum	White	.56 x .85	.79	.59	.54

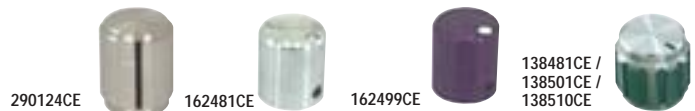


Aluminum Instrumentation Knobs (1/8" and 1/4" Shaft Diameters)



Includes: Set screw for secure attachment

290124CE: Coarse surface for sensitive control; 1/8" shaft diameter



Part No.	Cross Ref No.	Shaft Size	Body Color	Pointer Color	Size (H" x Dia.)	1	10	100
290124CE	42008-1	1/8"	Silver	Silver	.500 x .625	\$1.99	\$1.79	\$1.61
162481CE	K5-1/4S	1/4"	Chrome	Silver	.500 x .560	1.19	1.09	.96
162499CE	K5-1/4B	1/4"	Black	White	.500 x .560	1.55	1.39	1.07
138481CE	KN031	1/4"	Aluminum	Black	.610 x .650	1.49	1.35	1.19
138501CE	KN032	1/4"	Aluminum	Black	.870 x .750	1.95	1.71	1.55
138510CE	KN033	1/4"	Aluminum	Black	1.18 x .870	2.49	2.24	1.95

Component Grab Bags



135394CE – Electrolytic



135271CE – LEDs



169578CE – Photocells



18294CE – Toy Motors



149649CE – Fans



55968CE – Spacers



319599CE – Cabinet

* "LB" grab bag quantities and weights are approximate • Opened grab bags are not returnable • Use our 20-drawer cabinet w/ labels to store your components, P/N 319599CE

Shaded in brown on this page you will find Jameco's nine most popular component Grab Bags. They are all individually bagged, and are combined to make up the Schwab's School Selection (P/N 163213CE) referenced towards the bottom of the page.

Capacitors

Part No.	Cross Ref. No.	Description	Wt. (lbs.)	1	10
17857CE	GB100	200 asst. ceramic disc capacitors	0.2	\$4.95	\$4.49
135335CE	GB100LB*	1 lb. (813 pcs) asst. ceramic disc caps.	1.0	12.95	11.49
17881CE	GB101	100 assorted mylar capacitors	0.3	5.95	5.35
135458CE	GB101LB*	1 lb. (440 pcs) asst. mylar capacitors	1.0	14.95	13.49
17911CE	GB102	100 assorted electrolytic capacitors radial, axial, snap	0.5	4.95	4.49
135394CE	GB102LB*	1.5 lb. assorted (300 pcs) electrolytic caps. radial, axial, snap (photo above)	1.5	12.95	11.49
17945CE	GB103	100 assorted tantalum capacitors (dipped epoxy and solid tubular)	0.1	9.95	8.95

Diodes, Transistors and Crystals/Oscillators

Part No.	Cross Ref. No.	Description	Wt. (lbs.)	1	10	25
17961CE	GB107	200 assorted diodes (zener, switching, silicon)	0.1	\$5.95	\$5.35	\$4.79
18171CE	GB127	100 assorted transistors (NPN, PNP, power)	0.1	5.95	5.35	4.79
114446CE	GB150	50 assorted crystals/oscillators	0.2	7.95	6.95	6.25

Trimmer and Single-Turn Potentiometers

Part No.	Cross Ref. No.	Description	Wt. (lbs.)	1	10
18075CE	GB113	100 asst. 1/10W to 1/8W trimmer pots (100Ω to 2MΩ values)	0.1	\$5.15	\$3.89
18278CE	GB174	100 assorted 1/4W & 1/2W single turn pots (100Ω to 5MΩ assorted values)	0.2	6.95	6.25

Integrated Circuits and Sockets

Part No.	Cross Ref. No.	Description	Wt. (lbs.)	1	10
17996CE	GB108	100 assorted 7400, 74LS00 series (74, 74C, 74F, 74S, 74ALS, 74HC, 74HCT)	0.2	\$6.95	\$6.25
135280CE	GB108LB*	1 lb. (400 pcs) asst. 7400, 74LS00 series (74, 74C, 74F, 74S, 74ALS, 74HC, 74HCT)	1.0	19.05	17.15
18024CE	GB109	100 asst. linear series (LM300, 500, 700, 7800, 7900 reg.) DIP, TO-3, TO-220	0.6	7.95	6.95
145242CE	GB109LB*	2 lb. (300 pcs) asst. linear series (LM300, 500, 700, 7800, 7900 reg.)	2.0	19.05	17.14
114964CE	GB171	100 asst. microprocessor series (micros, PALS, RAMS, PROMS, EPROMS)	0.7	12.95	11.49
105620CE	GB120	100 asst. sockets (DIP IC, PGA)	0.3	5.95	5.35
135386CE	GB120LB*	1 lb. (260 pcs) assorted sockets (DIP, PGA, SIMM, SIP, DIN)	1.0	12.95	11.49

Get a Grip on Grab Bags

Outfitting a workbench or getting a new lab assistant up and running? Get their workbench stocked with the components they need and minimize delays. Each of the grab bags on this page will do just that. They're cheaper than buying piecemeal, and it takes far less time to order!



Practical Practices
Money Saving Tips for the Engineer

LEDs and Displays

Part No.	Cross Ref. No.	Description	Wt. (lbs.)	1	10	25
18041CE	GB110	100 assorted sizes & colored LEDs (T1&T1 ³ / ₄ round and rectangular)	0.1 ...	\$6.95	\$6.29	\$5.65
18323CE	GB186	500 asst. sizes #18041CE LEDs	0.3 ...	19.95	17.95	15.95
135271CE	GB110LB*	1 lb. (1900 pcs) asst. #18041CE LEDs	1.0 ...	44.95	40.95	38.95
18201CE	GB162	50 asst. sizes of colored displays (7-segment LED, modules, stick)	0.5	9.95	7.45	6.69

1/4W, 1/2W Resistors and Photocells

Part No.	Cross Ref. No.	Description	Wt. (lbs.)	1	10
18104CE	GB116	200 asst. 1/4W resistors (5&10%)	0.1	\$5.49	\$4.95
135351CE	GB116LB*	1 lb. (2000 pcs) asst. 1/4W resistors	1.0	14.95	13.49
18139CE	GB117	200 asst. 1/2W resistors (5&10%)	0.2	5.95	5.35
169578CE	GB125	100 asst. values photocells	0.2	12.95	11.49

Switches, Toy Motors and Fans

Part No.	Cross Ref. No.	Description	Wt. (lbs.)	1	10
18235CE	GB165	50 assorted switches (toggle, pushbutton, rocker, slide)	0.4	\$8.75	\$7.69
135378CE	GB165LB*	1 lb. (135 pcs) asst. #18235CE switches	1.0	18.95	16.95
18294CE	GB182	5 asst. toy DC motors (1.5–24V)	1.1	5.49	4.95
149649CE	GB193	5 asst. AC&DC fans (photo above)	4.5	8.75	7.69

Hardware Assortments

Part No.	Cross Ref. No.	Description	Wt. (lbs.)	1	10	25
171571CE	GB149*	1 lb. (500 pcs) asst. types of screws, nuts, washers & lock washers	1.0	\$5.95	\$5.35	\$4.79
171635CE	GB149LB*	3 lbs. (1400 pcs) asst. types; same as P/N 171571CE (above)	3.0	12.95	11.49	9.95

Spacers and Standoffs Assortments

Part No.	Cross Ref. No.	Description	Wt. (lbs.)	1	10	25
166481CE	GB440	100 asst. 4-40 spacers/standoffs	0.5 ...	\$8.39	\$7.55	\$6.79
166490CE	GB632	100 asst. 6-32 spacers/standoffs	0.5	8.39	7.55	6.79
55968CE	GB140	100 asst. 4-40, 6-32, 8-32 round/ hex, alum/brass/nylon spacers	0.3 ...	10.95	9.86	8.87
135423CE	GB140LB*	1 lb. (310 pcs) same as P/N 55968CE	1.0 ...	21.59	19.44	17.50

Schwab's School Selection

Jameco's nine most popular Grab Bags (highlighted on this page) are all individually bagged. North Dakota Engineer, Loren Schwab, recommended this selection of products as a standard item. He also recommended a 20-drawer component cabinet with labels (319599CE photo above) for storage.

Includes: Ceramic and electrolytic capacitors, diodes, transistors, potentiometers, LEDs, 1/4W resistors, switches, spacers and standoffs.

Part No.	Cross Ref. No.	Description	Wt. (lbs.)	1	10
163213CE	GB197	Schwab's School Selection	3.3	\$39.95	\$34.95
319599CE	GB197	20 drawer component cabinet	4.7	15.95	13.95

\$60.89
Value



What's your suggestion?

Spacers

Aluminum Round Spacers

- 3/16" OD • #4 ID (0.115")
- Iridite clear finish

*Prepackaged: order in increments of 10, 100 or 1000

Part No.	Product No.	Length	1	10	100	1000
392850CE	1107-4-A-7	1/8"	✱	\$.177	\$.169	\$.159
392868CE	1108-4-A-7	3/16"	✱	.195	.186	.176
392876CE	1109-4-A-7	1/4"	.20	.194	.19	.185
392884CE	1110-4-A-7	5/16"	.26	.214	.203	.193
392892CE	1111-4-A-7	3/8"	.26	.214	.203	.193
392905CE	1112-4-A-7	7/16"	.34	.288	.274	.26
392913CE	1113-4-A-7	1/2"	.29	.233	.221	.21
392921CE	1115-4-A-7	5/8"	.30	.242	.23	.218
392930CE	1116-4-A-7	11/16"	.44	.37	.35	.34
392948CE	1117-4-A-7	3/4"	.33	.279	.265	.252

Aluminum Round Spacers

- 1/4" OD • #4 ID (0.115")
- Iridite clear finish

Part No.	Product No.	Length	1	10	100	1000
393051CE	1122-4-A-7	1/8"	\$.24	\$.205	\$.194	\$.185
393060CE	1123-4-A-7	3/16"	.24	.205	.194	.185
393078CE	1124-4-A-7	1/4"	.24	.205	.194	.185
393086CE	1125-4-A-7	5/16"	.24	.205	.194	.185
393094CE	1126-4-A-7	3/8"	.30	.242	.23	.218
393107CE	1127-4-A-7	7/16"	.39	.326	.309	.294
393115CE	1128-4-A-7	1/2"	.30	.242	.23	.218
393123CE	1133-4-A-7	13/16"	.39	.326	.309	.294
393131CE	1134-4-A-7	7/8"	.39	.326	.309	.294
393140CE	1136-4-A-7	1"	.39	.326	.309	.294

Aluminum Round Spacers

- 1/4" OD • #6 ID (0.140")
- Iridite clear finish

Part No.	Product No.	Length	1	10	100	1000
393254CE	1122-6-A-7	1/8"	\$.24	\$.205	\$.194	\$.185
393262CE	1123-6-A-7	3/16"	.24	.205	.194	.185
393271CE	1124-6-A-7	1/4"	.24	.205	.194	.185
393289CE	1125-6-A-7	5/16"	.24	.205	.194	.185
393297CE	1126-6-A-7	3/8"	.30	.242	.23	.218
393300CE	1127-6-A-7	7/16"	.39	.326	.309	.294
393318CE	1128-6-A-7	1/2"	.30	.242	.23	.218
393326CE	1133-6-A-7	13/16"	.39	.326	.309	.294
393334CE	1134-6-A-7	7/8"	.39	.326	.309	.294

Brass Round Spacers

- 3/16" OD • #4 ID (0.115")
- Zinc clear chromate finish

Part No.	Product No.	Length	1	10	100	1000
392956CE	1107-4-B-12	1/8"	\$.79	\$.67	\$.64	\$.60
392964CE	1108-4-B-12	3/16"	.85	.68	.64	.61
392972CE	1109-4-B-12	1/4"	.86	.74	.70	.67
392981CE	1110-4-B-12	5/16"	.87	.74	.71	.67
392999CE	1111-4-B-12	3/8"	.89	.75	.72	.68
393001CE	1112-4-B-12	7/16"	.91	.77	.73	.70
393019CE	1113-4-B-12	1/2"	.93	.78	.74	.70
393027CE	1115-4-B-12	5/8"	1.12	.95	.90	.86
393035CE	1116-4-B-12	11/16"	1.14	.96	.91	.87
393043CE	1117-4-B-12	3/4"	1.16	.98	.93	.88

Brass Round Spacers

- 1/4" OD • #4 ID (0.115")
- Zinc clear chromate finish

Part No.	Product No.	Length	1	10	100	1000
393158CE	1122-4-B-12	1/8"	\$.24	\$.205	\$.194	\$.185
393166CE	1123-4-B-12	3/16"	.22	.186	.177	.168
393174CE	1124-2-B-12	1/4"	.26	.214	.203	.193
393182CE	1125-4-B-12	5/16"	.31	.26	.247	.23
393191CE	1126-4-B-12	3/8"	.32	.26	.247	.235
393203CE	1127-4-B-12	7/16"	.77	.65	.62	.59
393211CE	1128-4-B-12	1/2"	.34	.288	.274	.26
393220CE	1133-4-B-12	13/16"	.97	.82	.78	.74
393238CE	1134-4-B-12	7/8"	.66	.56	.53	.504
393246CE	1136-4-B-12	1"	.74	.63	.60	.57

Brass Round Spacers

- 1/4" OD • #6 ID (0.140")
- Zinc clear chromate finish

Part No.	Product No.	Length	1	10	100	1000
393351CE	1122-6-B-12	1/8"	\$.24	\$.205	\$.194	\$.185
393369CE	1123-6-B-12	3/16"	.22	.186	.177	.168
393377CE	1124-6-B-12	1/4"	.26	.214	.203	.193
393385CE	1125-6-B-12	5/16"	.31	.26	.247	.235
393393CE	1126-6-B-12	3/8"	.32	.26	.247	.235
393406CE	1127-6-B-12	7/16"	.77	.65	.62	.59
393414CE	1128-6-B-12	1/2"	.34	.288	.274	.26
393422CE	1133-6-B-12	13/16"	.97	.818	.78	.74
393431CE	1134-6-B-12	7/8"	.66	.56	.53	.504
393449CE	1136-6-B-12	1"	.74	.63	.60	.57

Standoffs, Male-Female

Male-Female Hex Aluminum Standoffs

- 3/16" Hex • 4-40 thread
- Iridite clear finish
- Thread length : 1/4"

Part No.	Product No.	Length	1	10	100	1000
393457CE	4501-440-A-7	1/4"	\$.35	\$.298	\$.283	\$.269
393465CE	4503-440-A-7	3/8"	.35	.298	.283	.269
393473CE	4505-440-A-7	1/2"	.35	.298	.283	.269
393490CE	4509-440-A-7	3/4"	.39	.326	.309	.294
393502CE	4513-440-A-7	1"	.39	.326	.309	.294

Male-Female Hex Brass Standoffs

- 1/4" Hex • Zinc clear chromate finish
- 4-40 thread • Thread length : 3/16"

Part No.	Product No.	Length	1	10	100	1000
393836CE	4530-440-B-12	1/4"	\$.73	\$.61	\$.58	\$.55
393844CE	4532-440-B-12	3/8"	.75	.63	.60	.57
393852CE	4534-440-B-12	1/2"	.81	.69	.65	.62
393861CE	4536-440-B-12	5/8"	.83	.70	.66	.63
393879CE	4538-440-B-12	3/4"	.78	.66	.63	.60
393887CE	4542-440-B-12	1"	.78	.66	.63	.60
393895CE	4546-440-B-12	1-1/4"	.85	.72	.68	.65
393908CE	4550-440-B-12	1-1/2"	1.24	1.05	1.00	.95

Male-Female Hex Brass Standoffs

- 1/4" Hex • Zinc clear chromate finish
- 6-32 thread • Thread length : 3/16"

Part No.	Product No.	Length	1	10	100	1000
393916CE	4530-632-B-12	1/4"	\$.73	\$.61	\$.58	\$.55
393924CE	4532-632-B-12	3/8"	.75	.63	.60	.57
393932CE	4534-632-B-12	1/2"	.81	.69	.65	.62
393941CE	4538-632-B-12	3/4"	.78	.66	.63	.60
393959CE	4542-632-B-12	1"	.78	.66	.63	.60
393967CE	4546-632-B-12	1-1/4"	.85	.72	.68	.65

Standoffs, Female-Female

Female-Female Hex Brass Standoffs

- 1/4" Hex • 4-40 thread
- Zinc clear chromate finish

Part No.	Product No.	Length	1	10	100	1000
393684CE	2100-440-B-12	1/4"	\$.24	\$.205	\$.194	\$.185
393692CE	2102-440-B-12	3/8"	.37	.307	.292	.277
393705CE	2103-440-B-12	7/16"	.71	.60	.57	.55
393713CE	2104-440-B-12	1/2"	.44	.372	.353	.336
393721CE	2106-440-B-12	5/8"	.61	.512	.486	.462
393730CE	2108-440-B-12	3/4"	.69	.58	.55	.52
393748CE	2112-440-B-12	1"	.81	.69	.65	.62

Female-Female Hex Brass Standoffs

- 1/4" Hex • 6-32 thread • Zinc clear chromate finish

Part No.	Product No.	Length	1	10	100	1000
393756CE	2100-632-B-12	1/4"	\$.24	\$.205	\$.194	\$.185
393764CE	2102-632-B-12	3/8"	.37	.307	.292	.277
393772CE	2104-632-B-12	1/2"	.44	.372	.353	.336
393781CE	2106-632-B-12	5/8"	.61	.512	.486	.462
393799CE	2108-632-B-12	3/4"	.69	.58	.548	.52
393801CE	2112-632-B-12	1"	.81	.69	.65	.62
393810CE	2120-632-B-12	1-1/2"	.77	.65	.62	.59

Washer-Face Aluminum Plain Aluminum

Part Number	Product Number	Thread	Length	Length	1	10	100	1000
393975CE	7100-A	4-40	5/16"	5/8"	\$1.55	\$1.47	\$1.40	\$1.33
393983CE	7101-A	4-40	3/8"	11/16"	1.55	1.47	1.40	1.33
393991CE	7105-A	4-40	1/2"	13/16"	1.55	1.47	1.40	1.33
394003CE	7106-A	8-32	3/8"	11/16"	1.69	1.61	1.53	1.45
394011CE	7107-A	8-32	1/2"	13/16"	1.75	1.66	1.58	1.50
394020CE	7109-A	10-32	3/8"	11/16"	1.69	1.61	1.53	1.45
394038CE	7111-A	10-32	5/8"	15/16"	1.75	1.66	1.58	1.50
394046CE	7112-A	1/4-20	3/8"	3/4"	1.79	1.70	1.62	1.54

Thumbscrews Plain Aluminum

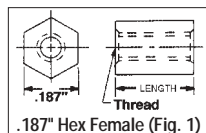
Part Number	Product Number	Thread	Length	Length	1	10	100	1000
394054CE	7120-A	4-40	5/16"	1/2"	\$1.55	\$1.47	\$1.40	\$1.33
394062CE	7125-A	6-32	3/8"	9/16"	1.49	1.42	1.35	1.28
394071CE	7128-A	8-32	3/8"	9/16"	1.65	1.56	1.49	1.41
394089CE	7135-A	10-32	1/2"	11/16"	1.69	1.60	1.52	1.44
394097CE	7138-A	1/4-20	1/2"	3/4"	1.79	1.71	1.63	1.55
394100CE	7140-A	1/4-20	5/8"	7/8"	1.85	1.76	1.67	1.59

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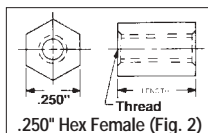
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Aluminum & Brass Threaded Standoffs

Hex
.187\"/>


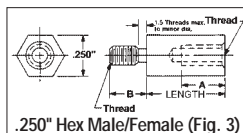
.187\"/>

4-40 Thread (Fig. 1) .187\"/>



.250\"/>

4-40 Thread (Fig. 3) (Thread A: .250\"/>



.250\"/>

Hex
.250\"/>
† Finish: Iridite (clear)¹ per MIL-C-5541-D;
bright tin plate²; stainless steel³

10 piece minimum

Part Number	Metal [†]	Hex Length	Pricing		
			10	100	1000
175636CE	Brass ²	.187"	\$.21	\$.15	\$.10
102795CE	Brass ²	.240"	.21	.15	.10
133612CE	Alum ¹	.250"	.20	.12	.09
133639CE	Alum ¹	.500"	.22	.20	.11
139791CE	Alum ¹	.562"	.18	.15	.13
133647CE	Alum ¹	.625"	.14	.13	.115
133655CE	Alum ¹	.750"	.43	.39	.23
139184CE	Alum ¹	1.000"	.43	.39	.32

.250\"/>

4-40 Thread (Fig. 2) .250\"/>

* Prepackaged: order in
increments of 10, 100 or 1000

Part Number	Metal [†]	Hex Length	Pricing			
			1	10	100	1000
139192CE	Alum ¹	.250"	*	\$.16	\$.12	\$.08
77500CE	Alum ¹	.375"	*	.20	.15	.09
134762CE	Alum ¹	.437"	*	.21	.18	.15
108370CE	Alum ¹	.500"	*	.25	.17	.10
77518CE	Alum ¹	.625"	.42	.35	.19	.14
133604CE	Alum ¹	.750"	.39	.35	.19	.14
139205CE	Alum ¹	1.000"	.49	.35	.25	.15

.250\"/>

6-32 Thread (Fig. 2) .250\"/>

* Prepackaged: order in
increments of 10, 100 or 1000

Part Number	Metal [†]	Hex Length	Pricing			
			1	10	100	1000
77534CE	Alum ¹	.250"	*	\$.22	\$.14	\$.08
133591CE	Alum ¹	.375"	.32	.29	.13	.09
77542CE	Alum ¹	.500"	*	.22	.17	.10
77551CE	Alum ¹	.625"	*	.25	.19	.14
77569CE	Alum ¹	.750"	.31	.28	.21	.13
77577CE	Alum ¹	1.000"	.59	.35	.30	.16
143407CE	Alum ¹	1.500"	.69	.61	.49	.42
143440CE	Alum ¹	1.750"	.79	.59	.48	.41

3M

Adhesive Rubber Feet

These are perfect for project boxes, providing a non-slip, non-scratch surface.



119618CE



126981CE



Fig. 1



Fig. 2



Fig. 3



Fig. 4

Part No.	Product No.	Type	Fig.	Pack	(W" x H")	1	10	50
119618CE	SJ5012BLK4	Black cylindrical	1	4	.50 x .14	\$.39	\$.38	\$.36
142658CE	SJ5012BLKC	Black cylindrical	1	100	.50 x .14	5.95	5.35	4.86
142771CE	SJ5008BLKC	Black square	2	100	.50 x .12	6.69	4.76	3.40
142682CE	SJ5018BLKC	Black square	3	100	.50 x .23	9.95	8.25	6.58
126981CE	SJ5023BLK4	Black square	4	4	.81 x .30	1.95	1.75	1.59
142666CE	SJ5023BLKC	Black square	4	100	.81 x .30	14.25	9.10	8.69

Color Code Legend
New Sale Lower\$ QtySave

PCB Standoff Mounting Hardware

- Snap "on"
- Nylon
- 291987CE: with thread
- 10 piece minimum



129251CE



28337CE



148056CE



156831CE

Part No.	Cross Ref. No.	Dimensions	Holes	10	100	1000
28337CE	PCST	1.2"L x 0.6"W	0.2"	\$.12	\$.07	\$.04
129251CE	PCST2	0.9"L x 0.4"Dia.	0.2"/0.3" .....	.18	.11	.075
148056CE	PCST3	0.8"L x 0.5"W	0.1"/0.2" .....	.08	.068	.051
156831CE	KCS10	0.68"L x 0.32"Dia.	0.14" .....	.125	.093	.063
291961CE	ACBS-6	0.75"L x 0.5"W	0.1"/0.2" .....	.135	.058	.033
291987CE	CASE-45-50	0.85"L x 0.3"Dia.	0.2" .....	.14	.092	.059
292015CE	SCB-6	0.7"L x 0.27"Dia.	0.1"/0.2" .....	.162	.138	.117

SAE Hardware

- Zinc-plated steel



Prepackaged: order in increments of 100 or 1000

Slotted Pan Head Machine Screws				
Part Number	Screw Size	Thread	Length (inches)	100 piece minimum
38172CE	2-56	Std	.250	\$.025
40951CE	4-40	Std	.250	.019
40969CE	4-40	Std	.375	.017
106809CE	4-40	Std	.500	.018
106542CE	6-32	Std	.250	.018
42446CE	6-32	Std	.375	.019
42438CE	6-32	Std	.500	.019
106796CE	8-32	Std	.500	.04

Hex Nuts				
Part Number	Screw Size	Thread	Length (inches)	100 piece minimum
38164CE	2-56	Std	.183	\$.022
211123CE	4-40	Sm	.184	.023
40942CE	4-40	Std	.243	.025
42420CE	6-32	Std	.306	.023
51553CE	8-32	Std	.334	.02

Flat Washers				
Part Number	Screw Size	Dia. (inches)	100 piece minimum	1000
211131CE	4	.237	\$.019	\$.014
106825CE	4	.281	.022	.019
106833CE	6	.373	.022	.019
106841CE	8	.377	.04	.025

Internal Tooth Lock Washers				
Part Number	Screw Size	Dia. (inches)	100 piece minimum	1000
106850CE	4	.258	\$.018	\$.015
106868CE	6	.277	.018	.015
106876CE	8	.323	.016	.015

Split Lock Washers				
Part Number	Screw Size	Dia. (inches)	100 piece minimum	1000
106788CE	2	.161	\$.024	\$.016
211140CE	4	.201	.02	.015
40977CE	4	.242	.02	.015
42462CE	6	.240	.011	.009
51609CE	8	.279	.012	.006

RAF Instrumentation Handles

216821CE:

- Oval diameter: 5/8"
- Internal thread size: 10-32
- Material: brass, nickel plate



216821CE

457801CE:

- Oval diameter: 1/4"
- Internal thread size: 6-32
- Material: black anodized steel

Part No.	Size (L" x H" x T")	1	10	100
216821CE	3.0 x 1.3 x 0.3	\$2.49	\$2.12	\$1.59
457801CE	3.0 x 1.0 x 0.4	2.19	1.83	1.70

200 Piece Spring Assortment

This kit contains approximately 200 springs with 20 different types, compression and tension ratings in a clear plastic case. They range from smallest which is about 10mm long to the longest 70mm long. Spring sizes listed on lid of plastic case.



Part No.	Description	1	10
314413CE	200-piece spring assortment	\$7.29	\$6.89

DC Brushless Fans

Color Code Legend
New Sale Lower\$ QtySave



102921CE



279566CE

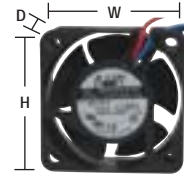
Call for additional OEM PRICING – we carry major manufacturers.

- Low profile
- Ball and sleeve bearings
- Power input by lead wires or terminals
- PBT black thermo plastic frame and impeller
- Agency approved
- Low power consumption
- Low acoustical noise rating

SALE



Quantity SAVE



249375CE



354933CE

Part Number	Manufacturer	Product Number	Voltage (VDC)	Size (W" x H" x D") ¹ <i>See metric below</i>	Air Flow (CFM)	Bearing	Current (mA)	Power (Watts)	Agency Approvals	Noise (dBA)	Connection (Leads)	Pricing			
												1	10	50	100
131246CE	Adda	AD0205LX-G50	5	1.00 x 1.00 x 0.40	1.8	Sleeve	100	0.5	UL/CSA/CE	15.6	5.5"	\$8.49	\$7.64	\$7.01	\$6.38
206156CE	Sunon	KDE0502PFB3-8	5	1.00 x 1.00 x 0.40	1.8	Ball	60	0.3	UL/CSA/TUV/CE	23	5"	11.95	10.76	8.60	6.45
196373CE	Sunon	KD0504PFB2-8	5	1.60 x 1.60 x 0.40	5.5	Ball	90	0.5	UL/CUL	23	12"	8.95	8.09	7.25	6.55
102921CE	Sunon	KD0504PFS2-8	5	1.60 x 1.60 x 0.40	6.3	Sleeve	120	0.6	UL/CUL	24.3	12"	7.95	6.95	6.25	5.59
171678CE	Delta	AFB0405HHD	5	1.60 x 1.60 x 0.80	8.6	Ball	700	2.0	None	36	2.5"	5.49	4.94	4.45	3.70
207061CE	Adda	AD0505MB-G90	5	2.00 x 2.00 x 0.40	10.5	Ball	120	0.7	UL/CSA/CE	24	11"	7.95	7.16	5.72	4.29
355493CE	Sunon	KD0506PTS3	5	2.36 x 2.36 x 1.00	15.9	Sleeve	230	1.2	UL/CUL/CE	26.7	6.5" w/ conn.	8.19	7.29	6.80	6.46
279566CE	Mechatronics	F6025H05B	5	2.36 x 2.36 x 1.00	20	Ball	410	2.05	UL/CUL/TUV	31	6"	8.45	8.05	7.18	6.82
212804CE	Sunon	KDE1202PFB3-8	12	1.00 x 1.00 x 0.40	1.3	Ball	40	0.5	UL/CUL/TUV/CE/VDE	26	5.9"	10.95	9.89	8.89	7.99
212791CE	Sunon	KDE1202PFB1-8	12	1.00 x 1.00 x 0.40	2.4	Ball	80	1.0	UL/CUL/TUV/CE/VDE	33	5.9"	10.95	9.86	7.88	6.26
212783CE	Sunon	KDE1203PFB1-8	12	1.18 x 1.18 x 0.40	3.5	Ball	75	0.9	UL/CUL/TUV/CE/VDE	27	5.9"	10.95	8.50	7.85	6.95
212741CE	Sunon	KDE1235PFB2-8	12	1.40 x 1.40 x 0.40	4.5	Ball	60	0.8	UL/CUL/TUV/CE/VDE	21	5.9"	11.95	10.76	8.60	6.45
212759CE	Sunon	KDE1235PFB1-8	12	1.40 x 1.40 x 0.40	5.2	Ball	80	1.0	UL/CUL/TUV/CE/VDE	25	5.9"	11.95	10.76	9.68	8.06
207052CE	Adda	AD0412MB-K90	12	1.60 x 1.60 x 0.25	5.5	Ball	60	0.72	UL/CSA/TUV/CE	25	5"	6.95	6.26	5.00	3.75
191476CE	Common Wealth	FP-108HX/DC	12	1.60 x 1.60 x 0.40	4.0	Sleeve	60	0.72	UL/CSA/TUV/CE	25	12"	5.29	4.76	3.81	2.86
210796CE	Sunon	KD1204PFB3H	12	1.60 x 1.60 x 0.40	4.7	Ball	50	0.6	UL/CUL/TUV/CE	24	14"	6.95	6.25	5.59	4.95
355418CE	ReliaPro	JR-DCF1241010S1	12	1.60 x 1.60 x 0.40	5.2	Sleeve	60	0.72	UL/CUL/TUV/CE	22.6	11.5"	5.65	3.85	3.52	3.35
279611CE	Toyo	T401012VH	12	1.60 x 1.60 x 0.40	5.8	Ball	90	1.1	UL/CUL/TUV/CE	33.5	12"	6.49	5.84	4.67	3.50
189691CE	Sunon	KD1204PFS2	12	1.60 x 1.60 x 0.40	6.3	Sleeve	70	0.9	UL/CSA/TUV	24	12"	7.95	7.16	5.72	4.29
161699CE	Sunon	KD1204PFB2-8	12	1.60 x 1.60 x 0.40	6.3	Ball	70	0.6	UL/CSA/TUV	30	12"	7.95	7.16	5.72	4.29
212716CE	Sunon	KDE1204PFB2-H	12	1.60 x 1.60 x 0.40	6.5	Ball	90	1.1	UL/CUL/TUV/CE/VDE	27	12"	6.65	4.95	4.36	3.95
290010CE	Adda	AD0412HB-G70	12	1.60 x 1.60 x 0.40	6.7	Ball	100	1.2	UL/CUL/TUV/CE	25	10" w/ conn.	4.95	4.60	4.14	3.72
311968CE	Adda	AD0412HS-G70	12	1.60 x 1.60 x 0.40	6.7	Sleeve	100	1.2	UL/CUL/TUV/CE	25	2.5"	4.25	2.89	2.69	2.59
213428CE	Adda	ADO412HB-G76 ¹	12	1.60 x 1.60 x 0.40	6.7	Ball	100	1.2	CE	30.2	12"/3 leads	7.59	6.83	5.46	4.10
212724CE	Sunon	KDE1204PFB1-H	12	1.60 x 1.60 x 0.40	8.3	Ball	110	1.4	UL/CUL/TUV/CE/VDE	34.4	12"	6.65	5.98	4.79	3.59
174131CE	Jamicon	JF0413S1M	12	1.60 x 1.60 x 0.47	3.8	Sleeve	90	1.1	UL/CSA/TUV	29	14"	2.95	2.66	2.12	1.59
136178CE	Adda	AD0412MS-C70	12	1.60 x 1.60 x 0.80	5	Sleeve	110	1.32	UL/CSA	23	9"	5.49	4.95	3.95	2.95
195899CE	Sunon	KDE1204PKS2	12	1.60 x 1.60 x 0.80	6.5	Sleeve	70	0.9	UL/CSA/TUV	25.5	12"	7.95	7.15	6.45	5.35
279620CE	Toyo	T402012H	12	1.60 x 1.60 x 0.80	6.7	Ball	70	0.84	UL/CUL/TUV/CE	26.2	12"	7.29	6.56	5.25	3.94
206447CE	Delta	DFB0412H	12	1.60 x 1.60 x 0.80	8.5	Ball	100	1.0	UL/CSA/VDE	32	8"	7.95	7.16	6.44	5.80
249375CE	Adda	ADO412HB-C56 ²	12	1.60 x 1.60 x 0.80	9.2	Ball	100	1.1	UL/CUL/TUV/CE	39.3	2"	8.95	8.06	6.44	4.83
206164CE	Sunon	KDE1204PKB3-8	12	1.60 x 1.60 x 0.80	10	Ball	90	1.1	UL/TUV/CE	29.4	2"	8.95	8.06	6.44	4.83
212679CE	Sunon	KDE1245PFB3-H	12	1.80 x 1.80 x 0.40	6.1	Ball	60	0.7	UL/CUL/TUV/CE/VDE	23	12"	5.49	4.94	4.45	4.00
212687CE	Sunon	KDE1245PFB2-H	12	1.80 x 1.80 x 0.40	8.0	Ball	90	1.1	UL/CUL/TUV/CE/VDE	29	12"	5.49	4.94	3.95	2.96
212644CE	Sunon	KDE1205PFB3-HG	12	2.00 x 2.00 x 0.40	8.5	Ball	60	0.7	UL/CUL/TUV/CE/VDE	26	12"	6.49	5.84	5.26	4.73
212652CE	Sunon	KDE1205PFB2-HG	12	2.00 x 2.00 x 0.40	10.6	Ball	80	1.0	UL/CUL/TUV/CE/VDE	31.5	12"	5.19	4.67	3.74	2.85
297959CE	Delta	EFB0512HA	12	2.00 x 2.00 x 0.40	11.4	Ball	150	1.8	UL/CSA/CE/VDE	30	6" w/ conn.	6.29	5.66	4.53	3.40
212661CE	Sunon	KDE1205PFB1-HG	12	2.00 x 2.00 x 0.40	12.5	Ball	110	1.4	UL/CUL/TUV/CE/VDE	36	12"	6.65	4.95	4.36	3.95
206965CE	Adda	AD0512HB-D71	12	2.00 x 2.00 x 0.60	11.7	Ball	100	1.2	UL/CUL/TUV/CE	28.5	5"	3.55	3.20	2.56	1.92
139601CE	Adda	AD0512HS-D71	12	2.00 x 2.00 x 0.60	12	Sleeve	100	1.2	UL/CSA/CE	29	12"	7.49	6.74	5.39	4.04
206172CE	Sunon	KDE1205PHB2-TM ³	12	2.00 x 2.00 x 0.60	12.7	Ball	140	1.7	UL/CSA/CE	27.8	11"/3 leads	7.95	7.16	6.44	5.80
212636CE	Sunon	KDE1205PHB2-H	12	2.00 x 2.00 x 0.60	13	Ball	80	1.0	UL/CUL/TUV/CE/VDE	29.5	12"	8.29	7.46	5.97	4.48
249092CE	Sunon	KD1206PFB1	12	2.36 x 2.36 x 0.40	16.5	Ball	120	1.4	UL/CSA/CE/TUV	36	11"	7.99	7.17	6.60	6.05
354933CE	Delta	EFB0612MA	12	2.36 x 2.36 x 0.40	15.5	Ball	120	1.4	UL/CSA/VDE/CE	29	12"/3 leads	7.99	7.19	5.75	4.31
195944CE	Adda	AD612MS-D71GL	12	2.36 x 2.36 x 0.60	14.2	Sleeve	110	1.32	UL/CSA/TUV/CE	28.8	6"	6.95	6.26	5.00	3.75
249068CE	Jamicon	JF0615B1H	12	2.36 x 2.36 x 0.60	15.7	Ball	170	2.04	UL/CUL/TUV/CE	34	10.5"	8.75	7.89	7.09	6.39
175046CE	Globe Motors	D24-B08A-04W3-000	12	2.36 x 2.36 x 0.80	10.6	Ball	90	0.8	UL/CSA/TUV/CE	22	13"	6.95	6.26	5.00	3.75
144160CE	Adda	AD0612LB-C70GL	12	2.36 x 2.36 x 0.80	12.6	Ball	80	1.0	UL/CSA/TUV	22.7	6"	8.49	7.69	6.15	4.65
189595CE	Sunon	KD1206PKS2	12	2.36 x 2.36 x 0.80	16.5	Sleeve	150	1.8	UL/CSA/TUV/CE	31	12"	4.95	4.46	3.56	2.61

¹ 213428CE: ATX PC type

² 249375CE: Speed sensor

³ 206172CE: Locked rotor alarm

DC Brushless Fans continued on pages 169 and 170

◆Size Conversion: Inches to mm

Inches	0.25	0.40	0.47	0.60	0.80	0.90	1.00	1.18	1.26	1.40	1.50	1.60	1.80	2.00	2.36	2.98	3.15	3.63	3.72	3.83	4.68	5.00	5.90	6.75
mm	6	10	12	15	20	23	25	30	32	35	38	40	45	50	60	75	80	92	95	97	120	127	150	170

DC Brushless Fans

Call for additional OEM PRICING – we carry major manufacturers.



234894CE



102955CE

- Low profile
- Ball and sleeve bearings
- Power input by lead wires or terminals
- PBT black thermo plastic frame and impeller
- Agency approved
- Low power consumption
- Low acoustical noise rating

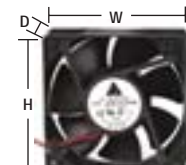
NEW



Quantity SAVE



227900CE



163619CE

Part Number	Manufacturer	Product Number	Voltage (VDC)	Size (W" x H" x D") [†] <i>See metric below</i>	Air Flow (CFM)	Bearing	Current (mA)	Power (Watts)	Agency Approvals	Noise (dBA)	Connection (Leads)	Pricing			
												1	10	50	100
237075CE	Nidec	TA225DC-B33399-55	12	2.36 x 2.36 x 1.00	12	Ball	110	1.3	UL/CSA	17.2	10"	\$5.95	\$5.36	\$4.28	\$3.21
75352CE	Common Wealth	FP108FDC12VS2	12	2.36 x 2.36 x 1.00	15.5	Sleeve	110	1.3	UL/CSA/TUV/CE	25	12"	5.79	5.21	4.17	3.13
136143CE	Delta	SB0612M	12	2.36 x 2.36 x 1.00	17.7	Sleeve	110	1.8	UL/CSA/VDE	26.5	5"	5.95	5.36	4.28	3.21
279646CE	Toyo	T602512H	12	2.36 x 2.36 x 1.00	18.1	Ball	140	1.7	UL/CUL/TUV/CE	34	12"	5.89	5.30	4.24	3.18
102947CE	Jamicon	JF0625S1H	12	2.36 x 2.36 x 1.00	20.5	Sleeve	230	2.7	UL/CSA/TUV	30.5	11"	6.49	5.84	4.67	3.50
150421CE	Jamicon	JF0625B1H	12	2.36 x 2.36 x 1.00	20.5	Ball	230	2.7	UL/CSA/TUV	30.5	10"	6.95	6.26	5.00	4.29
195910CE	Sunon	KD1206PTS1	12	2.36 x 2.36 x 1.00	21.7	Sleeve	190	2.3	UL/CSA/TUV	34	12"	6.49	5.84	5.26	4.73
395508CE	Sanyo	109R0612S402	12	2.36 x 2.36 x 1.00	23	Ball	170	2.04	UL/CSA/TUV	33	6"	5.95	5.49	5.41	5.32
400881CE	Comair Rotron	CR0612HB-A70GL	12	2.36 x 2.36 x 1.00	23.2	Ball	230	2.76	UL/CSA/TUV	23.2	12"	6.65	6.15	5.84	5.27
401269CE	Delta	AFB0812LB	12	3.15 x 3.15 x 0.60	24.7	Ball	140	1.68	UL/CSA/TUV	27.5	10"	9.35	6.81	6.40	6.08
109081CE	Adda	AD0812HS-D71	12	3.15 x 3.15 x 0.60	29	Sleeve	190	2.3	UL/CSA/TUV/CE	31.4	12"	9.95	8.99	8.09	7.25
141920CE	Adda	AD0812HB-C70	12	3.15 x 3.15 x 0.80	27.3	Ball	240	2.9	UL/CSA/CE	34	12"	6.35	5.95	5.75	5.55
16993CE	Various	FAN7315SL ^{1*}	12	3.15 x 3.15 x 1.00	25-40*	Sleeve	120-200*	1-2*	UL/CSA*	25*	4-12**	6.95	6.26	5.00	3.75
75361CE	Various	FAN6315BL*	12	3.15 x 3.15 x 1.00	25-40*	Ball	120-200*	1-2*	UL/CSA*	25*	4-12**	5.95	5.36	4.28	3.21
234894CE	Adda	AD0812LB-A70GL	12	3.15 x 3.15 x 1.00	27.6	Ball	120	1.44	UL/CSA/TUV/CE	22.5	11.5"	8.19	6.39	5.89	5.49
286926CE	Toyo	USTF802512MW	12	3.15 x 3.15 x 1.00	29	Ball	180	2.16	UL/CSA/CE/VDE	24.8	4.5"	6.99	6.29	5.05	3.79
154288CE	Sunon	KDE1208PTS3-6	12	3.15 x 3.15 x 1.00	29.4	Sleeve	120	1.4	UL/CSA/TUV/CE	24.5	5.5"	4.55	4.10	3.28	2.46
195952CE	Panasonic	FMB-08A12M	12	3.15 x 3.15 x 1.00	30	Sleeve	124	1.5	UL/CSA	28	11"	4.55	4.10	3.28	2.46
123529CE	Adda	AD0812MS-A70GL	12	3.15 x 3.15 x 1.00	32	Sleeve	150	1.8	UL/CSA/TUV	28.3	12"	6.95	6.26	5.00	3.75
265578CE	Yate Loon	D80SH-12	12	3.15 x 3.15 x 1.00	33	Ball	190	2.28	UL/CUL/TUV/CE	35.0	5"	7.29	7.18	7.07	6.96
166959CE	NMB (Smart Fan)	3110NL-Q12Q340-00 [†]	12	3.15 x 3.15 x 1.00	35	Ball	290	3.5	UL/CSA	35	2"	8.95	8.06	6.44	4.83
191599CE	NMB	3110KL-Q4W-B50	12	3.15 x 3.15 x 1.00	39	Ball	230	2.7	CSA	34	10"	7.49	6.74	5.39	4.04
185834CE	Panaflo	FBM08A12H	12	3.15 x 3.15 x 1.00	39.6	Sleeve	220	2.1	None	32	11"	6.95	6.26	5.00	3.75
206181CE	Sunon	KDE1208PTS1-6	12	3.15 x 3.15 x 1.00	42	Sleeve	220	2.6	UL/CSA/TUV/CE	34	9"	5.95	5.36	4.28	3.21
355400CE	ReliaPro	JR-DCF128025B1	12	3.15 x 3.15 x 1.00	42	Ball	230	2.8	UL/CUL/TUV/CE	28.6	11.5"	7.05	5.10	4.80	4.56
102955CE	Sunon	KD1208PTB1	12	3.15 x 3.15 x 1.00	42.5	Ball	220	2.6	UL/CSA/TUV/CE	33.5	12"	6.49	5.85	5.29	4.75
249148CE	Sunon	KDE1208PTB1-6	12	3.15 x 3.15 x 1.00	42.5	Ball	220	2.6	None	33.5	12"	6.49	5.85	5.29	4.75
172460CE	Nidec	TA300DCM33406-68 ²	12	3.15 x 3.15 x 1.00	43	Ball	290	3.5	UL/CSA	41	11*3 leads	9.95	8.99	7.19	5.39
189755CE	Cheng	CHA8012DB	12	3.15 x 3.15 x 1.00	44.3	Ball	300	3.6	UL	37	2" w/ conn.	5.49	4.94	3.95	2.96
323897CE	Mechatronics	FB02512B1 ³	12	3.15 x 3.15 x 1.00	46	Ball	240	2.88	UL/CUL/TUV	32	3*3 leads	6.99	5.09	4.79	4.45
75441CE	Common Wealth	FP108BDC12VS1	12	3.63 x 3.63 x 1.00	45	Sleeve	320	3.1	UL/CSA/TUV	32	10"	3.19	2.87	2.58	2.33
421526CE	Panasonic	FBA08A1211-1AZ	12	2.63 x 2.63 x 1.00	47	Sleeve	360	4.32	UL/CSA	38.2	11"	6.69	5.80	5.21	4.70
196023CE	Jamicon	FJ0925B1M	12	3.63 x 3.63 x 1.00	45.4	Ball	200	2.4	UL/CSA/TUV	34	10"	5.49	5.22	4.95	4.71
154641CE	Nidec	TA350DC-M33422-16	12	3.63 x 3.63 x 1.00	48	Ball	290	3.5	UL/CSA	43	12"	7.55	6.80	5.44	4.08
190983CE	Sunon	KD1209PTB1-6A	12	3.63 x 3.63 x 1.00	51	Ball	220	2.6	UL/CSA/TUV	34	12"	7.25	6.52	5.22	3.92
162739CE	NMB (Smart Fan)	3610KL-Q4W-B56 [†]	12	3.63 x 3.63 x 1.00	55	Ball	430	3.8	UL/CSA/VDE/CE	37	10*3 leads	7.95	7.16	6.44	5.80
102963CE	Nidec	TA350DC-M33503-55	12	3.63 x 3.63 x 1.00	56	Ball	400	4.8	UL/CSA	45	8"	7.95	6.95	6.25	5.59
319193CE	Pabst	3312-177	12	3.63 x 3.63 x 1.26	54.7	Ball	290	3.5	UL/CSA/CE/VDE	43	12"	7.95	7.16	5.72	4.29
213567CE	Nidec	A34124-33 ⁴	12	3.83 x 3.72 x 1.30	25	Ball	650	7.8	UL/CUL	60	11.5*3 leads	19.95	17.95	14.36	10.77
17140CE	Common Wealth	FP108MS3	12	4.68 x 4.68 x 1.00	54	Sleeve	140	1.7	UL/CSA/TUV/CE	25	12"	6.95	6.26	5.00	3.75
227900CE	Common Wealth	FP-108M-S1-B	12	4.68 x 4.68 x 1.00	80	Ball	330	4.0	UL/CSA/VDE/CE	42	12"	10.95	9.85	8.89	7.99
363848CE	Mechatronics	E1225H12B	12	4.68 x 4.68 x 1.00	82	Ball	385	4.62	UL/CUL/TUV	40	3.5"	16.09	14.48	11.58	8.69
174924CE	Globe Motors	D47-B10A-04T3-000	12	4.68 x 4.68 x 1.00	90	Ball	740	6.8	UL/CSA	39	Terminals	6.95	6.26	5.00	3.75
163619CE	NMB (Smart Fan)	4710NL012P535PO [†]	12	4.68 x 4.68 x 1.00	90	Ball	740	8.9	None	38.5	12"	4.95	4.46	3.56	2.67
159020CE	Sunon	KDE1212PMS1-6A	12	4.68 x 4.68 x 1.50	107	Sleeve	570	6.8	UL/CSA/TUV	41	12" \$11.95	10.95	9.86	7.88	5.91
94625CE	Sunon	KD1212PMB1-6A	12	4.68 x 4.68 x 1.50	108	Ball	570	6.8	UL/CSA/TUV/CE	42	12"	11.95	10.76	8.60	6.45
285966CE	Delta	AFB1212VHE	12	4.68 x 4.68 x 1.50	130	Ball	900	10.8	UL/CSA/VDE/CE	48	6"	14.95	13.45	10.75	8.09
355565CE	Panaflo	FBA12G12U	12	4.68 x 4.68 x 1.50	114.7	Sleeve	650	7.8	UL/CSA	45.5	9.5" w/ conn.	11.55	10.40	8.32	6.24
206201CE	Sunon	KDE2404PKB3	24	1.60 x 1.60 x 0.80	6	Ball	30	0.7	UL/CSA/TUV/CE	24	12"	7.49	6.74	5.39	4.04
100909CE	Sunon	KD2404PKS2	24	1.60 x 1.60 x 0.80	6.5	Sleeve	50	1.2	UL/CSA/TUV/CE	25.5	12"	7.95	7.16	6.44	5.36

¹ 16993CE: Replacement for the PC/XT computer power supply fan

² 172460CE: Locked rotor alarm

³ 185826CE/323897CE: Speed sensor

⁴ 213567CE: Blower type

[†] Temperature control: 166959CE (40°C); 162739CE (50°C, 3 leads); 163619CE (35°C)

* Manufacturer & specifications may vary

DC Brushless Fans continued on page 170

Size Conversion: Inches to mm

Inches	0.25	0.40	0.47	0.60	0.80	0.90	1.00	1.18	1.26	1.40	1.50	1.60	1.80	2.00	2.36	2.98	3.15	3.63	3.72	3.83	4.68	5.00	5.90	6.75
mm	6	10	12	15	20	23	25	30	32	35	38	40	45	50	60	75	80	92	95	97	120	127	150	170

Color Code Legend
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DC Brushless Fans (Continued)

Color Code Legend
New Sale Lower\$ QtySave



227248CE



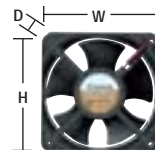
236099CE

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- Low profile
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- Power input by lead wires or terminals
- PBT black thermo plastic frame and impeller
- Agency approved
- Low power consumption
- Low acoustical noise rating



249287CE



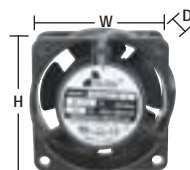
153411CE

Part Number	Manufacturer	Product Number	Voltage (VDC)	Size (W" x H" x D") See metric below	Air Flow (CFM)	Bearing	Current (mA)	Power (Watts)	Agency Approvals	Noise (dBA)	Connection (Leads)	Pricing			
												1	10	50	100
421518CE	Panasonic	FBA06T24H	24	2.36 x 2.36 x 0.60	16.6	Sleeve	110	1.99	UL/CSA	32	11"	\$8.09	\$7.03	\$6.31	\$5.70
140661CE	NMB	2408NL-05W-B60	24	2.36 x 2.36 x 0.80	18.4	Ball	100	2.4	None	31	2"	5.95	5.36	4.28	3.21
174107CE	Jamicon	JF0625S2M	24	2.36 x 2.36 x 1.00	18	Sleeve	130	3.1	UL/TUV	28.5	10"	5.79	5.21	4.17	3.13
189860CE	Jamicon	JF0625B2M	24	2.36 x 2.36 x 1.00	18	Ball	130	3.1	UL/CSA/TUV/CE	28.5	10"	8.95	8.06	7.25	6.52
227248CE	Mechatronics	F6025E24B	24	2.36 x 2.36 x 1.00	24	Ball	125	3.0	UL/CUL/TUV	36	12"	7.95	7.15	5.75	4.29
290028CE	Jamicon	JF0825B2M	24	3.15 x 3.15 x 1.00	31.7	Ball	130	3.1	UL/CUL/TUV/CE	29.3	10"	8.25	7.42	5.94	4.46
136160CE	Jamicon	JF0825B2H	24	3.15 x 3.15 x 1.00	39.2	Ball	150	3.6	UL/CSA/TUV	31	12"	9.49	8.55	7.69	6.95
189878CE	Sunon	KD2408PTB1-6A	24	3.15 x 3.15 x 1.00	42.5	Ball	220	2.6	UL/CSA/TUV/CE	36.5	12"	9.95	8.99	8.05	6.75
236099CE	Papst	8314/19H ¹	24	3.15 x 3.15 x 1.26	32	Ball	245	6.0	UL/CSA/VDE/CE	36	12"/3 leads	4.95	4.46	3.56	2.67
189886CE	NMB	3610KL-05W-B30	24	3.63 x 3.63 x 1.00	40.6	Ball	87	2.1	UL/CSA/VDE	34	12"	7.95	7.16	5.72	4.29
174094CE	Jamicon	JF0925S2H	24	3.63 x 3.63 x 1.00	52	Sleeve	190	4.6	UL/CUL	37	10"	6.95	6.26	5.00	3.75
421534CE	Panasonic	FBA09A25M	24	3.63 x 3.63 x 1.06	48	Sleeve	100	2.64	UL/CSA	30	10"	6.69	5.80	5.21	4.70
175281CE	Globe Motors	D47B10A05W2000	24	4.68 x 4.68 x 1.00	70	Ball	160	2.9	UL/CSA/TUV/CE	34	12"	12.95	11.66	10.49	9.44
249287CE	Jamicon	JF1225B2H5	24	4.68 x 4.68 x 1.00	83	Ball	500	12	None	41.1	7.5"	12.39	11.15	8.92	6.69
421622CE	Sunon	KDE2412PMS1-6A	24	4.68 x 4.68 x 1.50	107	Sleeve	160	6.7	UL/CSA/TUV/CE	41	12"	11.45	9.31	8.52	7.84
100968CE	Sunon	KDE2412PMB3-6A	24	4.68 x 4.68 x 1.50	83	Ball	140	3.4	UL/CSA/TUV/CE	35	12"	12.95	11.69	10.49	9.39
153411CE	Sunon	KD2412PMB2-6A	24	4.68 x 4.68 x 1.50	98	Ball	230	5.5	UL/CSA/TUV	36.5	12"	11.95	10.79	9.69	8.75
320021CE	Papst	W2G115-AE31-01	24	5.00 x 5.00 x 1.50	130	Ball	475	5.7	UL/CSA/VDE	48	10.5"	33.45	30.11	24.08	18.06

¹ 236099CE: Locked rotor alarm

AC Tube Axial Fans

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213866CE



146077CE



- Rating 115 & 220VAC @ 50-60Hz
- Low acoustical noise rating
- Agency approved fans
- Ball and sleeve bearings
- Air flow from 10 to 226 CFM

Fan Power Cords on Next Page



75432CE



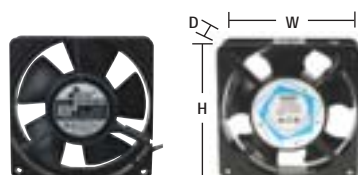
111894CE

Part Number	Manufacturer	Product Number	Voltage (VAC)	Size (W" x H" x D") See metric below	Air Flow (CFM)	Bearing	Current (mA)	Power (Watts)	Agency Approvals	Noise (dBA)	Connection (Leads)	Pricing			
												1	10	50	100
213866CE	Fulltech	UF60D11BWH	115	2.36 x 2.36 x 1.18	10.2	Ball	35	4	UL/CUL/VDE/CE	28	12" leads	\$15.95	\$14.39	\$12.95	\$11.65
162704CE	Toyo	USTF60301153W	115	2.36 x 2.36 x 1.18	11	Ball	38	4	UL/CSA/CE	29	12" leads	15.49	13.95	12.55	11.64
146077CE	Common Wealth	FP108AX-S1-B	115	3.15 x 3.15 x 1.00	23	Ball	140	14	UL/CE	29	12" leads	12.95	11.69	10.49	9.45
300556CE	Fulltech	UF80B11SWH	115	3.15 x 3.15 x 1.00	24	Sleeve	140	14	UL/CUL/TUV/CE	35	12" leads	9.19	8.25	7.98	7.70
300257CE	Fulltech	UF80B11BTH	115	3.15 x 3.15 x 1.00	24	Ball	140	14	UL/CUL/TUV/CE	35	Terminals	10.19	9.18	8.87	8.57
300581CE	Fulltech	UF80A11SWL	115	3.15 x 3.15 x 1.50	25	Sleeve	110	12	UL/CUL/TUV/CE	32	12" leads	9.59	8.64	8.35	8.06
300302CE	Fulltech	UF80A11BWL	115	3.15 x 3.15 x 1.50	25	Ball	110	11	UL/CUL/TUV/CE	32	12" leads	10.55	9.50	9.19	8.87
300329CE	Fulltech	UF80A11BTL	115	3.15 x 3.15 x 1.50	25	Ball	110	12	UL/CUL/TUV/CE	32	Terminals	10.55	9.50	9.19	8.87
300599CE	Fulltech	UF80A11BWH	115	3.15 x 3.15 x 1.50	29	Ball	120	12	UL/CUL/TUV/CE	36	12" leads	11.39	10.26	9.59	9.09
300388CE	Fulltech	UF80A11BTH	115	3.15 x 3.15 x 1.50	30	Ball	120	12	UL/CUL/TUV/CE	36	Terminals	11.39	10.26	9.58	9.10
297932CE	Fulltech	UF80A11SWH	115	3.15 x 3.15 x 1.50	30	Sleeve	120	12	UL/CUL/TUV/CE	36	12" leads	10.19	9.18	8.99	8.57
303386CE	Fulltech	UF80A11STH	115	3.15 x 3.15 x 1.50	30	Sleeve	120	12	UL/CUL/TUV/CE	36	Terminals	10.19	9.18	8.87	8.57
303394CE	Fulltech	UF80A11STL	115	3.15 x 3.15 x 1.50	25	Sleeve	100	11.5	UL/CUL/TUV/CE	32	Terminals	10.19	9.18	8.87	8.57
75459CE	Sunon	SF11592A-1092HBT	115	3.63 x 3.63 x 1.00	37	Ball	110	12	UL/CSA/TUV/CE	40	Terminals	15.95	14.39	12.95	11.65
75432CE	Yellow	SF11592A-1092HSL	115	3.63 x 3.63 x 1.00	36	Sleeve	130	12	UL/CSA/TUV/CE	39	12" leads	12.55	11.29	10.19	9.15
303466CE	Sunon	SF11592A-1092HBL	115	3.63 x 3.63 x 1.00	37	Ball	110	12	UL/CSA/TUV/CE	40	12" leads	15.95	14.39	12.95	11.65
124062CE	Sunon	SP101AT1122HBT	115	4.68 x 4.68 x 1.00	78	Ball	180	18	CSA/TUV/CE	46	Terminals	13.49	10.95	9.89	9.19
303407CE	Sunon	SP100A-1123XBL	115	4.68 x 4.68 x 1.50	117	Ball	240	20	UL/CSA/TUV/CE	47	12" leads	14.95	13.95	12.95	11.95
303415CE	Common Wealth	FP108-1-S1-B/W	115	4.68 x 4.68 x 1.50	105	Ball	200	17	UL/CSA/TUV/CE	47	12" leads	16.95	15.29	13.75	12.39
303482CE	Fulltech	UF12A11SWL	115	4.68 x 4.68 x 1.50	81	Sleeve	150	15	UL/CSA/TUV/CE	15	12" leads	12.85	11.54	10.77	10.23
303440CE	Fulltech	UF12A11BWL1	115	4.68 x 4.68 x 1.50	64	Ball	80	115	UL/CSA/TUV/CE	37	12" leads	14.95	13.49	12.15	10.95
118965CE	Fulltech	UF12A12BTL1	115	4.68 x 4.68 x 1.50	64	Ball	80	15	UL/CSA/TUV/CE	37	Terminals	12.85	11.54	10.76	10.23
303360CE	Fulltech	UF12A11BTL1	115	4.68 x 4.68 x 1.50	64	Ball	80	15	UL/CUL/TUV/CE	37	Terminals	12.85	11.54	10.76	10.23
300791CE	Fulltech	UF12A11STL	115	4.68 x 4.68 x 1.50	81	Sleeve	150	15	UL/CUL/TUV/CE	38	Terminals	10.95	9.84	9.51	9.19
111894CE	Common Wealth	FP108-1-S1/W	115	4.68 x 4.68 x 1.50	105	Sleeve	180	17	UL/CSA/CE	47	12" leads	13.95	12.59	11.35	10.19
106585CE	Common Wealth	FP108-1-S1/T	115	4.68 x 4.68 x 1.50	105	Sleeve	180	12	UL/CSA/CE	47	Terminals	15.95	14.39	12.95	11.65
16934CE	Common Wealth	FP108-1-S1-B	115	4.68 x 4.68 x 1.50	105	Ball	200	17	UL/CSA/TUV/CE	47	Terminals	16.95	15.29	13.75	12.39

Blue P/N = Limited Quantity Available

Size Conversion: Inches to mm

Inches	0.25	0.40	0.47	0.60	0.80	0.90	1.00	1.18	1.26	1.40	1.50	1.60	1.80	2.00	2.36	2.98	3.15	3.63	3.72	3.83	4.68	5.00	5.90	6.75
mm	6	10	12	15	20	23	25	30	32	35	38	40	45	50	60	75	80	92	95	97	120	127	150	170



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- Rating 115 & 220VAC @ 50-60Hz
- Low acoustical noise rating
- Agency approved fans
- Ball and sleeve bearings
- Air flow from 10 to 226 CFM



212599CE

275792CE

206308CE

209365CE

Part Number	Manufacturer	Product Number	Voltage (VAC)	Size (W" x H" x D") See metric below	Air Flow (CFM)	Bearing	Current (mA)	Power (Watts)	Agency Approvals	Noise (dBA)	Connection (Leads)	Pricing			
												1	10	50	100
212599CE	Fulltech	UF12A11BWH	115	4.68 x 4.68 x 1.50	106	Ball	190	15	UL/CUL/TUV/CE	46	12" leads	\$12.95	\$11.95	\$10.95	\$9.95
275792CE	Sunon	SP101A-123HBT	115	4.68 x 4.68 x 1.50	107	Ball	180	18	UL/CSA/TUV/CE	50	Terminals	12.85	11.19	9.25	6.95
206308CE	Adda	AA1281UB-AT	115	4.68 x 4.68 x 1.50	107	Ball	230	24	CE	48	Terminals	14.95	13.46	10.76	8.07
102883CE	Sunon	SP100A-1123XBT	115	4.68 x 4.68 x 1.50	117	Ball	240	20	UL/CUL/TUV/CE	50	Terminals	14.95	13.95	12.95	11.95
108724CE	Fulltech	UF15AC11BTH	115	6.75 x 5.90 x 1.50	211	Ball	230	28	UL/CUL/TUV/CE	58	Terminals	27.95	25.16	20.12	17.91
212581CE	Fulltech	UF15PC11BWH	115	6.75 x 5.90 x 2.00	226	Ball	250	30	UL/CUL/TUV/CE	58	12" leads	24.95	22.46	17.96	17.39
189683CE	Fulltech	UF15PC11BTH	115	6.75 x 5.90 x 2.00	226	Ball	250	30	CSA	58	Terminals	29.95	26.96	21.56	19.15
355629CE	Fulltech	UF-80A23-BTH	220	3.15 x 3.15 x 1.50	30	Ball	60	12	UL/CSA/VDE/CE	36	Terminals	11.39	10.26	9.75	9.26
100917CE	Sunon	SF23080A/2083HSL	220	3.15 x 3.15 x 1.50	30	Sleeve	60	13.5	UL/CSA/TUV/CE	35	12" leads	10.49	8.39	7.55	6.40
209365CE	Bi-Sonic	4C-230LB	220	4.68 x 4.68 x 1.50	63	Ball	60	9	TUV/CE	34	10" leads	12.95	11.66	9.32	8.01
302244CE	Rotron	28023	220	4.68 x 4.68 x 1.50	88	Ball	130	28.6	UL/CSA	50.7	Terminals	18.95	17.05	15.35	13.81
303458CE	Sunon	DP200A-2123XBL	220	4.68 x 4.68 x 1.50	117	Ball	120	21	UL/CSA/TUV/CE	50	12" leads	15.95	14.39	12.95	11.65
102891CE	Sunon	DP200A-2123XBT	220	4.68 x 4.68 x 1.50	117	Ball	120	21	UL/CSA/TUV/CE	50	Terminals	15.95	14.39	12.95	11.65

♦ Size Conversion: Inches to mm

Inches	0.25	0.40	0.47	0.60	0.80	0.90	1.00	1.18	1.26	1.40	1.50	1.60	1.80	2.00	2.36	2.98	3.15	3.63	3.72	3.83	4.68	5.00	5.90	6.75
mm	6	10	12	15	20	23	25	30	32	35	38	40	45	50	60	75	80	92	95	97	120	127	150	170

Fan Guards, Filters and Power Cords



123502CE



120037CE



31923CE/123511CE



25734CE



138561CE/196816CE



229665CE



138579CE/130104CE

Compatible with DC and AC Fans – pages 168 - 171

- All guards and filters fit all fans by matching the size dimension. Example: P/N 300556CE fan (3.15") matches P/N 31923CE metal guard (3.15").

Quantity SAVE

Part No.	Description♦	1	10	100	250
123502CE	1.60" metal (chrome) guard	\$.49	\$.44	\$.35	\$.26
120037CE	2.36" metal (chrome) guard	.79	.71	.64	.54
31923CE	3.15" metal (chrome) guard	.79	.65	.52	.49
123511CE	3.63" metal (chrome) guard	.99	.89	.71	.53
25734CE	4.68" metal (chrome) guard	1.09	.98	.78	.59

♦ Size conversion chart – above

Part No.	Description♦	1	10	100	250
138561CE	3.15" plastic guard with mesh	\$1.39	\$1.25	\$1.15	\$.95
229665CE	3.63" plastic guard with mesh	1.49	1.34	1.07	.80
196816CE	4.68" plastic guard with mesh	1.95	1.55	1.39	1.25
138579CE	3.15" alum. washable filter	2.95	2.66	2.12	1.59
130104CE	4.68" alum. washable filter	3.49	3.19	2.75	2.49

♦ Size conversion chart – above

Fan Power Cords: 24" Straight and Right-Angle

- Cord type: SPT-1 (2) conductor black • Voltage rating: 300V • Temperature range: 60°C • Fits all terminal fans

Part No.	Description	Length	1	10	100	250
28564CE	Straight socket cord	24"	SALE \$.99	\$.88	\$.70	\$.62
104192CE	90° angle socket cord	24"	1.29	.89	.71	.54



28564CE

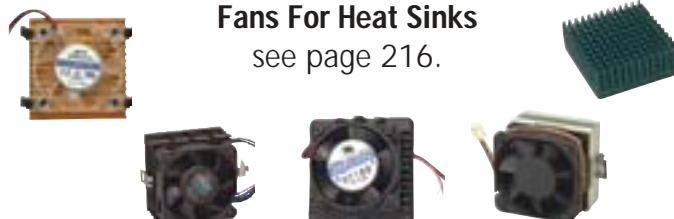


104192CE

For Heat Sinks
see page 48.



Fans For Heat Sinks
see page 216.



30-Watt Open Frame, Low Leakage

MPS-30 Series: Single Output

- 100% full load burn-in test
- Universal AC input
- High-efficiency, low heat generation
- -10°C to +50°C working temperature (see www.Jameco.com)
- Load regulation: $\pm 1.0\%$
- Line regulation: $\pm 0.5\%$, except 220986CE: $\pm 1.0\%$
- Inrush current: 35A @ 120VAC • Leakage current: 0.3mA @ 240V
- Three-year warranty • Size: 4.0"L x 2.59"W x 0.98"H • Isolation voltage: 4000VAC
- Mounting holes: 3.74"L x 2.02"W x 0.12"Dia. • 2.9 watts/in² maximum
- Mating connectors: P/Ns 104723CE & 104432CE, pg 115 • Weight: 0.3 lbs.

The Mean Well MPS-30 medical power supplies are low cost, high reliability open frame power supplies that feature a low leakage current of 0.3mA@240VAC. Other features of this open frame power supply are: universal input of 88-264VAC as well as 120-370VDC for battery-supported applications. Protections include short-circuit, overload, and over-voltage. They are UL and TUV approved, and carry a CE mark for use worldwide.

110-Watt Open Frame, Low Leakage

NFS110-79xxP Series: Quad Outputs

- 100% full-load burn-in
- 110W with 20 CFM of air
- Leakage current: 0.1mA @ 240V
- Size: 7.0"L x 4.25"W x 1.8"H
- Inrush current: 17A @ 120VAC
- Two-year warranty
- Mounting holes: 6.6"L x 3.75"W x 0.156"Dia.
- Mating connectors: P/Ns 104723CE, 104766CE & 104432CE, pg 115
- 0°C to +70°C working temperature (see www.Jameco.com)
- Universal AC input
- 2.1 watts/in² maximum
- Voltage adjustment: 3%
- Isolation voltage: 4000VAC
- Line regulation: $\pm 0.1\%$
- Weight: 1.3 lbs.

The NFS110-79xxP models have proven to be highly reliable and versatile for a wide range of communication and industrial applications, with a very high peak current capability on each output for drive and motor applications. These models have full medical safety approval to EN60601 and UL2601, and meet conducted emissions requirements of EN55022 level A. They are designed for use in low power medical, dental and laboratory applications.

45 & 65-Watt Open Frame, Low Leakage

MPS-45 & MPS-65 Series: Single Output

- 100% full load burn-in test
- Universal AC input
- High-efficiency, low heat generation
- Isolation voltage: 4000VAC
- 2.9 watts/in² max.
- Voltage adjustment: 10%
- -10°C to +60°C working temperature (see www.Jameco.com)
- Leakage current: 0.3mA @ 240V
- Inrush current: 20A @ 120VAC
- Line regulation: $\pm 1.0\%$
- Load regulation: $\pm 2.0\%$, except 221057CE, 221129CE, 221145CE: $\pm 3.0\%$
- Soft-start circuit, limiting AC surge current
- Mating connectors: P/Ns 104432CE and 104731CE, pg 115
- Mounting holes: 4.55"L x 2.55"W x 0.14"Dia.
- Three-year warranty • Weight: 0.6 lbs.
- Size: MPS-45: 5.0"L x 3.0"W x 1.06"H; MPS-65: 5.0"L x 3.0"W x 1.65"H

The MeanWell MPS-45 & MPS-65 medical power supplies are low cost, high reliability open frame power supplies. Other features of these power supplies are: universal input of 88-264VAC, as well as 120-370VDC for battery-applications. Full rated power is available with 18CFM forced air convection applied. Protections include short-circuit, overload, and over-voltage.

For Complete Specifications visit www.Jameco.com.

SALE

Jameco Part No.	Manufacturer	Product No.	Output		Input (VAC @ Hz)	Ripple & Noise (mV p-p)*	Certification	Pricing		
			Voltage@Current (min-max)	Power				1	10	25
220986CE	Mean Well	MPS-30-12	+12V@0-2.5A	30.0W	88-264@47-63	120	UL/CUL/TUV/CE	\$33.95	\$30.56	\$27.50
220994CE	Mean Well	MPS-30-15	+15V@0-2A	30.0W	88-264@47-63	150	UL/CUL/TUV/CE	25.29	22.97	20.89
221006CE	Mean Well	MPS-30-24	+24V@0-1.2A	28.8W	88-264@47-63	240	UL/CUL/TUV/CE	33.95	30.56	27.50
221014CE	Mean Well	MPS-30-27	+27V@0-1.1A	29.7W	88-264@47-63	240	UL/CUL/TUV/CE	25.99	23.62	21.47
221057CE	Mean Well	MPS-45-7.5	+7.5V@0-5.4A	40.5W	90-264@47-440	100	UL/CUL/TUV/CE	34.95	29.71	22.28
221065CE	Mean Well	MPS-45-12	+12V@0-3.7A	44.4W	90-264@47-440	100	UL/CUL/TUV/CE	34.95	29.71	22.28
221081CE	Mean Well	MPS-45-15	+15V@0-3A	45.0W	90-264@47-440	100	UL/CUL/TUV/CE	34.95	29.71	22.28
221090CE	Mean Well	MPS-45-24	+24V@0-1.9A	45.6W	90-264@47-440	100	UL/CUL/TUV/CE	34.95	29.71	22.28
221102CE	Mean Well	MPS-45-27 ⚡	+27V@0-1.7A	45.9W	90-264@47-440	100	UL/CUL/TUV/CE	25.85	23.47	21.33
221111CE	Mean Well	MPS-45-48	+48V@0-1A	48.0W	90-264@47-440	100	UL/CUL/TUV/CE	34.95	31.46	28.31
221129CE	Mean Well	MPS-65-3.3	+3.3V@0-12A	39.6W	90-264@47-440	80	UL/CUL/TUV/CE	27.15	24.64	22.40
221145CE	Mean Well	MPS-65-7.5	+7.5V@0-8A	60.0W	90-264@47-440	100	UL/CUL/TUV/CE	35.95	32.36	29.12
221153CE	Mean Well	MPS-65-12	+12V@0-5.2A	62.4W	90-264@47-440	100	UL/CUL/TUV/CE	35.95	32.36	29.12
221161CE	Mean Well	MPS-65-13.5	+13.5V@0-4.7A	63.5W	90-264@47-440	100	UL/CUL/TUV/CE	33.95	28.86	21.64
221188CE	Mean Well	MPS-65-24	+24V@0-2.7A	64.8W	90-264@47-440	100	UL/CUL/TUV/CE	35.95	30.56	22.92
221209CE	Mean Well	MPS-65-48	+48V@0-1.35A	64.8W	90-264@47-440	100	UL/CUL/TUV/CE	35.95	32.36	29.12
220222CE	Artesyn	NFS110-7901P	+5.1V@0-8; +12V@0-4.5A; -5V@0-0.5A; -12V@0-0.5A	110W	90-253@47-440	50	UL/CSA/VDE/CE	88.89	84.49	80.25

* Primary Output

Blue Part No. = Limited Quantity Available

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Ultraminiature 5 to 20-Watt Power Supplies

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- UL/CUL/TUV/CE
- Universal AC input/full range
- Fixed switching frequency @ 100kHz
- High reliability, low-cost
- Short circuit/overload/over-voltage/over-temperature protection



5-Watt OFM-5000 Series

- Size: 2.28"L x 1.77"W x 0.83"H
- Inrush current: 20A @ 115VAC
- Pin-mount

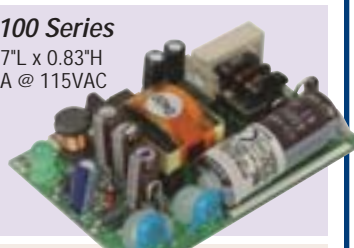


15-Watt OFM-1500 Series

- Size: 2.76"L x 1.89"W x 0.83"H
- Inrush current: 25A @ 115VAC
- Pin-mount

10-Watt OFM-0100 Series

- Size: 2.56"W x 1.77"L x 0.83"H
- Inrush current: 25A @ 115VAC
- Pin-mount



20-Watt OFM-0200 Series

- Size: 3.50"L x 2.00"W x 0.78"H
- Inrush current: 25A @ 115VAC
- Chassis mount



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Jameco Part No.	Cross Ref. Number	Output		Load Regulation	Line Regulation	Ripple & Noise (mV p-p)	Pricing		
		Voltage@Current (min-max)	Power				1	10	25
300281CE	OFM-5001	+5V@0-1A	5W	±2%	±0.5%	50	\$30.39	\$28.50	\$27.08
300409CE	OFM-5002	+12V@0-0.42A	5W	±1%	±0.3%	150	30.39	28.50	27.08
300417CE	OFM-5003	+15V@0-0.33A	5W	±1%	±0.3%	150	30.39	28.50	27.08
300425CE	OFM-5005	+24V@0-0.23A	5W	±0.5%	±0.2%	240	30.39	28.50	27.08
300433CE	OFM-0101	+5V@0-2A	10W	±2%	±0.5%	50	36.09	34.20	32.49
300441CE	OFM-0102	+12V@0-0.85A	10W	±1%	±0.3%	180	36.09	34.20	32.49
300450CE	OFM-0103	+15V@0-0.67A	10W	±1%	±0.3%	180	36.09	34.20	32.49
300468CE	OFM-0105	+24V@0-0.42A	10W	±0.5%	±0.2%	240	36.09	34.20	32.49
300476CE	OFM-1501	+5V@0-3A	15W	±2%	±0.5%	60	40.85	38.00	36.10
300484CE	OFM-1502	+12V@0-1.25A	15W	±1%	±0.3%	150	40.85	38.00	36.10
300492CE	OFM-1503	+15V@0-1.0A	15W	±1%	±0.3%	150	40.85	38.00	36.10
300505CE	OFM-1505	+24V@0-0.63A	15W	±0.5%	±0.2%	240	40.85	38.00	36.10
300513CE	OFM-0201	+5V@0-4.4A	20W	±2%	±0.5%	50	43.69	40.85	38.81
300521CE	OFM-0202	+12V@0-1.8A	20W	±1%	±0.3%	150	43.69	40.85	38.81
300530CE	OFM-0203	+15V@0-1.4A	20W	±1%	±0.3%	150	43.69	40.85	38.81
300548CE	OFM-0205	+24V@0-0.92A	20W	±0.5%	±0.2%	240	43.69	40.85	38.81

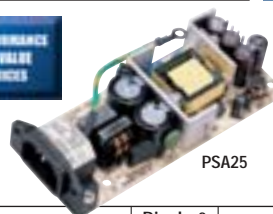
15 & 25-Watt Open Frame PSA15 & PSA25 Series: Single & Triple Outputs

- Load regulation: ±2.0%
- Line regulation: ±1.0%
- Universal input
- Isolation voltage: 3,000 VAC
- Voltage adjustment: 5% (PSA15 only)
- Inrush current: 30A @ 120VAC
- Temperature: 0° to +40°C
- One-year warranty
- Size: 4.33"L x 1.57"W x 0.91"H, except 230535CE 3.6"L x 2.5"W x 1.1"H

Jameco Part No.	Manufacturer	Product No.	Output		Input (VAC @ Hz)	Ripple & Noise (mV p-p)*	Certification	Pricing		
			Voltage@Current (min-max)	Power				1	10	25
229041CE	Phihong	PSA15LN3-050	+5V@0-3A	15W	90-264@47-63	50	UL/CUL/TUV/CE	\$17.95	\$16.95	\$16.19
229059CE	Phihong	PSA15LN3-120	+12V@0-1.25A	15W	90-264@47-63	120	UL/CUL/TUV/CE	17.95	16.95	16.19
229067CE	Phihong	PSA15LN3-240	+24V@0-0.63A	15W	90-264@47-63	240	UL/CUL/TUV/CE	15.79	14.99	14.26
230535CE	Phihong	PSA25L-301	+5V@0.2-2A; +12V@0.1-1A; -12V@0-0.3A	25W	90-264@47-63	50	UL/CUL/TUV/CE	23.49	21.15	18.99

* Primary Output

Blue Part No. = Limited Quantity Available



PSA15
UL US CE

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25 to 45-Watt Open-Frame Switching AC-to-DC Power Supplies

Color Code Legend
New Sale Lower\$ QtySave

25-Watt Open Frame

NLP-25 Series: Single & Triple Outputs

- 100% full-load burn-in
- 3.3 watts/in² maximum
- Load regulation: $\pm 2.0\%$
- 0°C to +50°C working temp. (see www.Jameco.com)
- Size: 4.0"L x 2.07"W x 0.91"H
- Universal AC input
- Line regulation: $\pm 2.0\%$
- Two-year warranty



25-Watt Open Frame

PS-25 & PD-25 Series: Single & Dual Outputs

- 100% full-load burn-in
- Inrush current: 40A @ 120VAC
- Size: 4.20"L x 2.40"W x 1.10"H
- 10°C to +60°C working temp (see www.Jameco.com)
- Universal AC input
- Two-year warranty



Part Number	Load Reg. (%)	Line Reg. (%)	Part Number	Load Reg. (%)	Line Reg. (%)	Part Number	Load Reg. (%)	Line Reg. (%)
212361CE	2.5	0.5	216768CE	1.0	0.3	212337CE	1.0	0.5
212353CE	2.0	0.5	212345CE	0.5	0.2	212329CE	1.0	0.5
392825CE	2.0	0.5	392817CE	0.5	0.2	394249CE	4.0	2.0
148603CE	1.0	0.3	212311CE	4.0	1.0	148689CE	3.0	0.5
392809CE	1.0	0.3						

* Primary Output



40-Watt Open Frame

NFS-40 Series: Single & Triple Outputs

- 100% full-load burn-in
- Universal AC input
- 50 watts with 20 CFM of air
- No minimum load required
- Load regulation: $\pm 2.0\%$
- Line regulation: $\pm 0.2\%$
- Inrush current: 12A @ 120VAC
- 0° to +70°C working temperature (see www.Jameco.com)
- Voltage adjustment: 5%
- Mating connectors: P/Ns 104432CE & 104731CE, pg 115
- Size: 5.0"L x 3.0"W x 1.2"H
- Two-year warranty

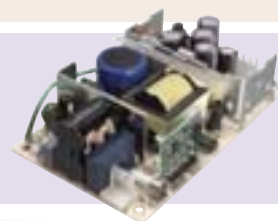


45-Watt Open Frame

PSA45 Series: Single, Triple & Quad Outputs

- Load regulation: $\pm 2.0\%$
- Inrush current: 20A @ 120VAC
- Size: 5.0"L x 3.0"W x 1.2"H
- Line regulation: $\pm 2.0\%$
- Temperature: 0° to +50°C
- Weight: 0.9 lbs.
- Universal input
- One-year warranty

Call for LOWER PRICES on Larger Quantities



Enclosed Power Supplies on pages 178-185.

For Complete Specifications visit www.Jameco.com.

SALE

Jameco Part No.	Manufacturer	Product No.	Output		Input (VAC @ Hz)	Ripple & Noise (mV p-p)*	Certification	Pricing		
			Voltage@Current (min-max)	Power				1	10	25
218499CE	Artesyn	NLP25-7624	+24V@0.1-0.4A	25.0W	90-264@47-440	150	UL/CSA/VDE/CE	\$31.15	\$28.29	\$25.71
218501CE	Artesyn	NLP25-7608	+5V@0.2-2A; +12V@0.1-0.8A; -12V@0.0-1A	20.8W	90-264@47-440	50	UL/CSA/VDE/CE	31.29	28.45	25.87
212361CE	Mean Well	PS-25-3.3	+3.3V@0-5A	16.5W	85-264@47-63	80	UL/CUL/TUV/CE	17.95	16.95	16.19
212353CE	Mean Well	PS-25-5	+5V@0-5A	25.0W	85-264@47-63	80	UL/CUL/TUV/CE	18.95	18.26	17.58
392825CE	Mean Well	PS-25-7.5	+7.5V@0-3.3A	24.8W	85-264@47-63	80	UL/CUL/TUV/CE	18.95	18.26	17.58
148603CE	Mean Well	PS-25-12	+12V@0-2.1A	25.2W	85-264@47-63	100	UL/CUL/TUV/CE	18.95	18.26	17.58
392809CE	Mean Well	PS-25-13.5	+13.5V@0-1.9A	25.7W	85-264@47-63	100	UL/CUL/TUV/CE	18.95	18.26	17.58
216768CE	Mean Well	PS-25-15	+15V@0-1.7A	25.5W	85-264@47-63	100	UL/CUL/TUV/CE	16.95	16.10	15.30
212345CE	Mean Well	PS-25-24	+24V@0-1A	24.0W	85-264@47-63	240	UL/CUL/TUV/CE	18.95	18.26	17.58
392817CE	Mean Well	PS-25-27	+27V@0-0.9A	24.3W	85-264@47-63	240	UL/CUL/TUV/CE	18.95	18.26	17.58
212311CE	Mean Well	PD-2505	+5V@0.1-3A; -5V@0.1-2.5A	25.0W	85-264@47-63	50	UL/CUL/TUV/CE	19.95	16.96	12.72
212337CE	Mean Well	PD-25A	+5V@0.2-2.5A; +12V@0.1-1.5A	25.0W	85-264@47-63	50	UL/CUL/TUV/CE	20.69	19.95	18.31
212329CE	Mean Well	PD-25B	+5V@0.2-2A; +24V@0.1-1A	25.2W	85-264@47-63	50	UL/CUL/TUV/CE	20.69	19.95	18.31
394249CE	Mean Well	PD-2503	+3.3V@0.2-5A; +5V@0.1-4A	24.9W	85-264@47-63	50	UL/CUL/TUV/CE	20.69	19.95	18.31
148689CE	Mean Well	PD-2512	+12V@0.1-1.2A; -12V@0.1-1A	24.0W	85-264@47-63	50	UL/CUL/TUV/CE	20.69	19.95	18.31
218510CE	Artesyn	NFS40-7605	+5.1V@0-6A	30.6W	85-264@47-440	100	UL/CSA/VDE/CE	37.49	34.06	30.96
218528CE	Artesyn	NFS40-7612	+12V@0-3.3A	39.6W	85-264@47-440	120	UL/CSA/VDE/CE	37.49	34.06	30.96
218536CE	Artesyn	NFS40-7624	+24V@0-1.6A	38.4W	85-264@47-440	240	UL/CSA/VDE/CE	37.49	34.06	30.96
190086CE	Artesyn	NFS40-7608	+5V@0-3A; +12V@0-2A; -12V@0-0.35A	43.2W	85-264@47-440	50	UL/CSA/VDE/CE	46.39	41.75	37.55
229075CE	Phihong	PSA45-050	+5V@0-8A	40.0W	90-264@47-63	50	UL/CSA/TUV/CE	\$27.95 22.99	21.83	20.74
229091CE	Phihong	PSA45-120	+12V@0-4A	48.0W	90-264@47-63	120	UL/CSA/TUV/CE	\$27.95 22.65	21.54	20.46
229112CE	Phihong	PSA45-240	+24V@0-2A	48.0W	90-264@47-63	240	UL/CSA/TUV/CE	\$27.95 22.85	21.69	20.61
229121CE	Phihong	PSA4531	+5V@0-4A; +12V@0-1.5A; -12V@0-0.5A	44.0W	90-264@47-63	50	UL/CSA/TUV/CE	31.95	28.79	25.89
229139CE	Phihong	PSA4534	+5V@0-4A; +15V@0-1.2A; -15V@0-0.5A	45.5W	90-264@47-63	50	UL/CSA/TUV/CE	29.95	27.38	24.80
229147CE	Phihong	PSA4541	+5V@0-3A; +12V@0-2A; -5V@0-0.5A; -12V@0-0.5A	47.5W	90-264@47-63	50	UL/CSA/TUV/CE	\$29.95 26.09	24.77	23.53

* Primary Output

Special Offers at Great Savings – 90-Day Warranty

Jameco Part No.	Manufacturer	Product No.	Output		Input (VAC @ Hz)	Size Inches (LxWxH)	Mounting Holes Inches (LxWxDia.)	Ripple & Noise (mV p-p)*	Load Reg. (%)	Line Reg. (%)	Certification	Pricing		
			Voltage@Current (min-max)	Power								1	10	25
210841CE	Power-One	MAP42-1005	+5V@0-8A	40.0W	120-240@50-60	5.0x3.0x1.3	4.6x2.6x0.16	50	1.0	0.2	UL/CSA/TUV/CE	\$17.95	\$15.26	\$11.44
168225CE	Converter Concepts	STRC0006	+5V@2.7A; +12V@1.2A; +35V@.35A; -5V@.18A	30.0W	85-135@57-63	9.0x2.0x1.6	—	—	—	—	UL	5.95	5.35	4.79

* Primary Output

45 to 65-Watt Open-Frame Switching AC-to-DC Power Supplies

45-Watt Open Frame

PS-45, PD-45 & PT-45 Series: Single, Dual & Triple Outputs

- 100% full-load burn-in
- Voltage adjustment: 10%
- Line regulation: $\pm 1.0\%$
- Size: 5.0"L x 3.0"W x 1.06"H
- Universal AC input
- Inrush current: 20A @ 120VAC
- Load regulation: $\pm 3.0\%$ (except 213727CE/213719CE/374352CE/374361CE: $\pm 2.0\%$)
- -10°C to +60°C working temperature (see www.Jameco.com)
- Two-year warranty



50-Watt Open Frame

LPS-50 Series: Single Output

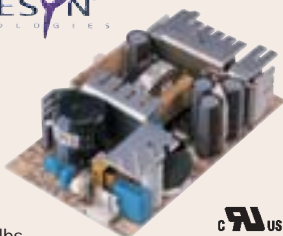
- 100% full burn-in
- Short circuit, overload, over-voltage protection
- LED power indicator
- Inrush current: 25A @ 115VAC
- Built-in remote ON-OFF
- Universal AC input
- Voltage adjustment: 10%
- Line regulation: $\pm 1.0\%$
- Weight: 0.5 lbs.
- Power density: 3.32 watts/in³
- Input voltage: 90-264VAC@47-63Hz, 127-370VDC
- Load regulation: $\pm 2.0\%$ (LPS-50-12); $\pm 1.0\%$ (LPS-50-24)
- Working temperature: -20 to +70C
- Size: 7.7"L x 2.2"W x 0.9"H
- Two-year warranty



65-Watt Open Frame

NLP65-76 Series: Single & Triple Outputs

- 100% full-load burn-in
- Universal AC input
- 75 watts with 20 CFM of air
- Load regulation: $\pm 2.0\%$
- Line regulation: $\pm 2.0\%$
- Inrush current: 17A @ 120VAC
- Two-year warranty
- Size: 5.0"L x 3.0"W x 1.26"H
- Weight: 0.6 lbs.
- 0° to +70°C working temperature (see www.Jameco.com)



65-Watt Open Frame

PS-65, PD-65 & PT-65 Series: Single, Dual & Triple Outputs

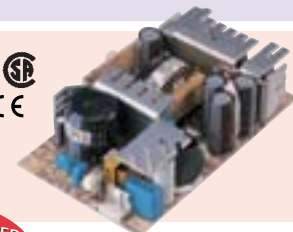
- 100% full-load burn-in
- Voltage adjustment: 10%
- Line & load regulation: ± 1.0 to $\pm 4.0\%$ (see www.Jameco.com)
- -10°C to +60°C working temperature (see www.Jameco.com)
- Inrush current: 20A @ 120VAC
- Two-year warranty
- Size: 5.0"L x 3.0"W x 1.65"H
- Universal AC input
- Weight: 0.6 lbs



65-Watt Open Frame with Power Factor Correction

NLP65-96 Series: Single & Triple Outputs

- 100% full-load burn-in
- No minimum load required
- Line regulation: $\pm 2.0\%$
- Two-year warranty
- Universal AC input
- 75 watts with 20 CFM of air
- Inrush current: 17A @ 120VAC
- Weight: 0.6 lbs.
- Load regulation: $\pm 2.0\%$
- 0° to +70°C working temperature (see www.Jameco.com)
- Size: 5.0"L x 3.0"W x 1.26"H



Enclosed Power Supplies on pages 178-185.

For Complete Specifications visit www.Jameco.com.

Call for LOWER PRICES on Larger Quantities

SALE

Jameco Part No.	Manufacturer	Product No.	Output		Input (VAC @ Hz)	Ripple & Noise (mV p-p)*	Certification	Pricing		
			Voltage@Current (min-max)	Power				1	10	25
217331CE	Mean Well	PS-45-5	+5V@0-8A	40.0W	90-264@47-440	100	UL/CUL/TUV/CE	\$22.95	\$19.51	\$14.63
213727CE	Mean Well	PS-45-12	+12V@0-3.7A	44.4W	90-264@47-440	100	UL/CUL/TUV/CE	27.95	21.99	19.85
374352CE	Mean Well	PS-45-15	+15V@0-3.5A	45.0W	90-264@47-440	100	UL/CUL/TUV/CE	27.95	21.99	19.85
213719CE	Mean Well	PS-45-24	+24V@0-1.9A	45.6W	90-264@47-440	100	UL/CUL/TUV/CE	27.95	21.99	19.85
374361CE	Mean Well	PS-45-27	+27V@0-1.95A	45.9W	90-264@47-440	100	UL/CUL/TUV/CE	27.95	21.99	19.85
194861CE	Mean Well	PD-45A	+5V@0.4-3.2A; +12V@0.2-2	40.0W	90-264@47-440	50	UL/CUL/TUV/CE	24.95	22.46	20.21
194870CE	Mean Well	PD-45B	+5V@0.4-3.2A; +24V@0.2-1.2A	44.8W	90-264@47-440	50	UL/CUL/TUV/CE	24.95	21.21	15.91
88401CE	Mean Well	PT-45B	+5V@0.4-3A; +12V@0.2-2A; -12V@0-0.3A	45.0W	90-264@47-440	50	UL/CUL/TUV/CE	29.95	23.09	20.89
252401CE	Mean Well	LPS-50-12	+12V@0-4.2A	50.4W	90-264@47-63	80	UL/CUL/TUV/CE	28.95	23.65	20.95
252620CE	Mean Well	LPS-50-24	+24V@0-2.1A	50.4W	90-264@47-63	80	UL/CUL/TUV/CE	28.95	23.65	20.95
218561CE	Artesyn	NLP65-7605	+5V@0-13A	65.0W	85-264@47-63	50	UL/CUL/CSA/VDE/CE	49.49	44.96	40.87
218579CE	Artesyn	NLP65-7612	+12V@0-5.4A	64.8W	85-264@47-63	120	UL/CUL/CSA/VDE/CE	52.65	47.85	43.50
218587CE	Artesyn	NLP65-7608	+5V@0-7.5A; +12V@0-2.5A; -12V@0-0.65A	75.3W	85-264@47-63	50	UL/CUL/CSA/VDE/CE	52.95	48.13	43.76
201937CE	Mean Well	PS-65-5	+5V@0-12A	60.0W	90-264@47-440	100	UL/CUL/TUV/CE	29.95	25.46	19.09
148638CE	Mean Well	PS-65-12	+12V@0-5.2A	62.4W	90-264@47-440	100	UL/CUL/TUV/CE	29.95	25.29	21.99
374379CE	Mean Well	PS-65-13.5	+13.5V@0-5.4A	63.5W	90-264@47-440	100	UL/CUL/TUV/CE	29.95	25.29	21.99
216750CE	Mean Well	PS-65-15	+15V@0-4.2A	63.0W	90-264@47-440	100	UL/CUL/TUV/CE	24.95	21.21	15.91
148646CE	Mean Well	PS-65-24	+24V@0-2.7A	64.8W	90-264@47-440	100	UL/CUL/TUV/CE	29.95	25.29	21.99
201945CE	Mean Well	PS-65-27	+27V@0-2.4A	64.8W	90-264@47-440	100	UL/CUL/TUV/CE	29.95	25.29	21.99
201953CE	Mean Well	PS-65-48	+48V@0-1.35A	64.8W	90-264@47-440	100	UL/CUL/TUV/CE	29.95	25.29	21.99
194888CE	Mean Well	PD-65A	+5V@0.4-7A; +12V@0.2-3.2A	61.1W	90-264@47-440	50	UL/CUL/TUV/CE	34.95	26.39	23.09
194896CE	Mean Well	PD-65B	+5V@0.4-3.5A; +24V@0.2-2A	65.5W	90-264@47-440	50	UL/CUL/TUV/CE	34.95	26.39	23.09
216733CE	Mean Well	PT-65B	+5V@0.4-5.5A; +12V@0.2-2.5A; -12V@0-0.5A	63.5W	90-264@47-440	50	UL/CUL/TUV/CE	36.95	28.59	25.29
216725CE	Mean Well	PT-65C	+5V@0.4-5.5A; +15V@0.2-2A; -15V@0-0.5A	65.0W	90-264@47-440	50	UL/CUL/TUV/CE	36.95	28.59	25.29
394222CE	Mean Well	PT-6503	+3.3V@0-7A; +5V@0.2-10A; +12V@0-1.2A	61.8W	90-264@47-63	50	UL/CUL/TUV/CE	51.35	48.45	45.99
218595CE	Artesyn	NLP65-9612	+12V@0-5.4A	64.8W	85-264@47-63	120	UL/CUL/CSA/VDE/CE	61.49	55.90	50.82
218616CE	Artesyn	NLP65-9608	+5V@0-7.5A; +12V@0-2.5A; -12V@0-0.65A	75.3W	85-264@47-63	50	UL/CUL/CSA/VDE/CE	61.45	55.87	50.79

* Primary Output

Color Code Legend
New Sale Lower\$ QtySave

Order 24/7 Toll Free 1-800-831-4242

175

65 to 110W Open-Frame Switching AC-to-DC Power Supplies

Color Code Legend
New Sale Lower\$ QtySave

75-Watt Open Frame

LPS-75 Series: Single Outputs

- 100% full-load burn-in
- Universal AC input
- Built-in remote ON/OFF
- Line regulation: $\pm 1.0\%$
- Load regulation:
(244718CE) $\pm 1.0\%$;
(244726CE) $\pm 2.0\%$
- Voltage adjustment: 10%
- Inrush current: 24A @ 120VAC
- -20°C to +60°C working temperature (see www.Jameco.com)
- Two-year warranty • Weight: 0.5 lbs. • Size: 8.74"L x 2.16"W x 1.18"H



100-Watt Open Frame

LPS-100 Series: Single Output

- 100% full-load burn-in
- Auto-switch AC input
- No minimum load required
- Load regulation: $\pm 1.5\%$,
except 173462CE: $\pm 0.5\%$
- Line regulation: $\pm 0.5\%$
- Voltage adjustment: 10%
- Inrush current: 30A @ 120VAC
- Three-year warranty
- Size: 8.74"L x 2.44" x 1.25"W • Weight: 0.8 lbs.
- -10°C to +60°C working temperature (see www.Jameco.com)



100-Watt Open Frame with Power Factor Correction

LPP-100 Series: Single Output

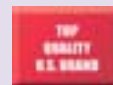
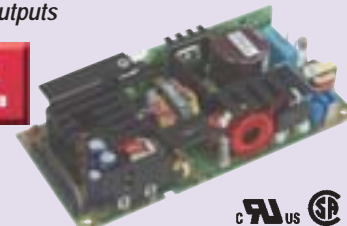
- 100% full-load burn-in
- Auto-switch AC input
- No minimum load required
- 4.4 watts/in² maximum
- Load regulation: $\pm 0.5\%$
- Line regulation: $\pm 0.5\%$
- Isolation voltage: 3000VAC
- Inrush current: 40A @ 120VAC
- Voltage adjustment: 10%
- Leakage current: 2.0mA @ 240V
- Three-year warranty • Weight: 0.8 lbs. • Size: 8.75"L x 2.44"W x 1.25"H
- Mounting holes: 8.34"L x 2.04"W x 0.13"Dia.
- Mating connectors: P/Ns 215950CE & 215976CE, pg 115
- -10°C to +60°C working temperature (see www.Jameco.com)



110-Watt Open Frame with Power Factor Correction

NLP110 Series: Single & Triple Outputs

- 100% full-load burn-in
- Universal AC input
- 6 watts/in² maximum
- Load regulation: $\pm 2.0\%$
- Line regulation: $\pm 2.0\%$
- Inrush current: 18A @ 120VAC
- Isolation voltage: 3000VAC
- Leakage current: 0.45mA @ 240V
- Voltage adjustment: 3%
- 110W with 20 CFM of air
- Two-year warranty • Weight: 0.6 lbs.
- Size: 6.5"L x 3.0"W x 1.26"H • Mounting holes: 6.05"L x 2.55"W
- Mating connectors: P/Ns 104432CE & 2 ea. 104731CE, pg 115
- 0°C to +70°C working temp. (see www.Jameco.com)



Enclosed Power Supplies
on pages 178-185.

For Complete Specifications visit www.Jameco.com.

SALE

Call for LOWER
PRICES on Larger
Quantities

Jameco Part No.	Manufacturer	Product No.	Output		Input (VAC @ Hz)	Ripple & Noise (mV p-p)*	Certification	Pricing		
			Voltage@Current (min-max)	Power				1	10	25
244718CE	Mean Well	LPS-75-12	+12V@0-6.8A	74.4W	90-264@47-63	100	UL/CUL/TUV/CE	\$34.95	\$33.20	\$31.54
244726CE	Mean Well	LPS-75-24	+24V@0-3.5A	76.8W	90-264@47-63	120	UL/CUL/TUV/CE	34.95	29.71	22.28
173471CE	Mean Well	LPS-100-12	+12V@0-8.4A	100.8W	88-264@47-63	100	UL/CUL/TUV/CE	52.95	48.39	42.89
374344CE	Mean Well	LPS-100-13.5	+13.5V@0-7.5A	101.3W	88-264@47-63	100	UL/CUL/TUV/CE	52.95	48.39	42.89
173462CE	Mean Well	LPS-100-24	+24V@0-4.2A	100.8W	88-264@47-63	150	UL/CUL/TUV/CE	52.95	48.39	42.89
216709CE	Mean Well	LPS-100-48	+48V@0-2.1A	100.8W	88-264@47-63	200	UL/CUL/TUV/CE	52.95	45.01	33.76
216688CE	Mean Well	LPP-100-12	+12V@0-8.5A	102.0W	85-264@47-63	100	UL/CUL/TUV/CE	57.39	51.65	46.49
216670CE	Mean Well	LPP-100-15	+15V@0-6.7A	100.5W	85-264@47-63	100	UL/CUL/TUV/CE	38.29	34.78	31.62
204610CE	Mean Well	LPP-100-24	+24V@0-4.2A	100.8W	85-264@47-63	150	UL/CUL/TUV/CE	64.95	55.21	41.41
218915CE	Artesyn	NLP110-9605	+5V@0.5-15A	75.0W	90-264@47-63	50	UL/CUL/CSANDE	59.49	54.11	49.19
218923CE	Artesyn	NLP110-9612	+12V@0.3-6.4A	76.8W	90-264@47-63	120	UL/CUL/CSANDE	70.15	63.76	57.97
218931CE	Artesyn	NLP110-9624	+24V@0.2-3.2A	76.8W	90-264@47-63	240	UL/CUL/CSANDE	69.99	64.51	58.65
218940CE	Artesyn	NLP110-9693	+3.3V@0.2-13A; +5V@0.5-13A; +12V@0-0.65A	110.0W	90-264@47-63	50	UL/CUL/CSANDE	69.99	64.51	58.65
218958CE	Artesyn	NLP110-9608	+5V@0.2-13A; +12V@0.2-6.5A; -12V@0-0.65A	110.0W	90-264@47-63	120	UL/CUL/CSANDE	87.89	79.88	72.62

Other Versions
Available: Call
800-831-4242

* Primary Output Blue Part No. = Limited Quantity Available

Special Offers at Great Savings – 90-Day Warranty

Quantity SAVE

Jameco Part No.	Manufacturer	Product No.	Output		Input (VAC @ Hz)	Size Inches (LxWxD)	Mounting Holes Inches (LxWxDia.)	Ripple & Noise (mV p-p)*	Load Reg. (%)	Line Reg. (%)	Certification	Pricing		
			Voltage@Current (min-max)	Power								1	10	25
169068CE	Autec	UPS65-1051	+5V@0.2-13A	65.0W	115/230@50-60	6.0x3.5x1.5	4.8x3.2x0.16	50	1.0	0.5	UL/CSA/VDE	\$4.89	\$4.16	\$3.12
237024CE	Lite-On	PA-1101-1	+12V@2-8.5A	102.0W	85-264@47-63	6.0x4.0x1.3	—	1200	10.0	1.0	UL/CUL/TUV/CE	39.95	33.95	25.49
171731CE	Delta	DPS-60MPB	+3.3V@0.8-8A; +5V@1-9A;	65.0W	90-270@47-63	5.8x3.3x1.4	—	50	2.0	2.0	UL/CUL/TUV	6.95	5.89	4.45
196824CE	Encad	U006612010	+5.2V@3A; +24V@2A	65.0W	90-250@50-60	6.3x3.9x1.5	—	—	—	—	UL/CUL/TUV	15.95	13.56	10.17
235088CE	Artesyn Power	NLP65-7629	+5V@0-7A; +12V@0-2.5A	65.0W	85-264@47-63	5.0x3.0x1.3	4.6x2.6x0.16	50	2.0	2.0	UL/CUL/CSA/CE	28.35	25.75	23.45
226211CE	Phihong	PSA-60-302	+5V@6A; +12V@1.2A; -12V@1.2A	60.0W	100-240@50-60	5.0x3.0x1.6	4.5x2.5x0.15	50	2.0	2.0	UL/CSA/VDE	29.95	25.46	19.09
215706CE	Mean Well	PT-65D	+5V@0.5-4A; +12V@0.2-2A; +24V@0.2-1A	65.0W	90-264@47-440	5.0x3.0x1.5	4.6x2.6x0.15	50	2.0	1.0	UL/CUL/TUV/CE	24.95	22.45	20.19
229850CE	IPD Power	SRW-65-3003	+5V@5A; +15V@3.5A; -15V@1A	65.0W	85-264@47-63	6.0x4.0x1.1	5.7x3.5x0.15	50	1.0	—	UL/CUL/TUV/CE	22.95	19.51	14.63
202876CE	Power-One	MAP80-4003	+5V@14A; +15V@3.5A; -5V@1A; -15V@1A	80.0W	100/230@47-63	7.2x4.3x1.8	6.7x3.2x0.17	50	1.0	0.2	UL/CSA/TUV/CE	19.95	16.96	16.54

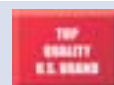
* Primary Output † Power Factor Correction

108 to 350-Watt Open-Frame Switching AC-to-DC Power Supplies

108-Watt Open Frame

NFS110-76: Single Output

- 100% full-load burn-in
- 2.8 watts/in² maximum
- Size: 7.0"L x 4.25"W x 1.8"H
- Mating connectors: P/Ns 104723CE, 104766CE & 104432CE, pg 115
- Universal AC input
- Load regulation: $\pm 2.0\%$
- Weight: 1.3 lbs.

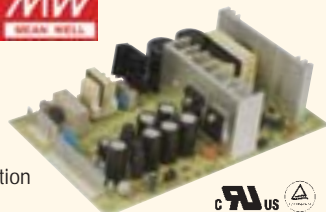


- 108W with 20 CFM of air
- Line regulation: $\pm 0.1\%$
- Voltage adjustment: 3%
- Mounting holes: 6.6"L x 3.75"W x 0.16"Dia.
- 0°C to +70°C working temp. (see www.Jameco.com)
- Two-year warranty

110-Watt Open Frame

PD-110B: Dual Output

- 100% full-load burn-in
- Universal AC input
- Cooling by free air convection
- Load and line regulation: $\pm 1.0\%$
- Ripple and noise: 100mVp-p
- Short circuit/overload/over-voltage protection
- Working temperature: -10°C to +50°C (see www.Jameco.com for specifications)
- Size: 7.0"L x 4.3"W x 1.8"H



125-Watt Open Frame with Power Factor Correction

- 100% full-load burn-in
- Universal AC input
- Line regulation: $\pm 0.5\%$
- Size: 5.0"L x 2.4"W x 1.4"H

PPS-125 Series: Single Output

- Load regulation: $\pm 1.0\%$
- -40° to +85°C working temp. (see www.Jameco.com)

PPT-125 Series: Triple Output

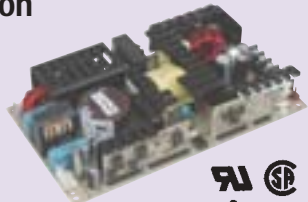
- Load regulation: $\pm 3.0\%$
- -20° to +60°C working temperature (see www.Jameco.com)



150-Watt Open Frame with Power Factor Correction

NLP150 Series: Single & Quad Output

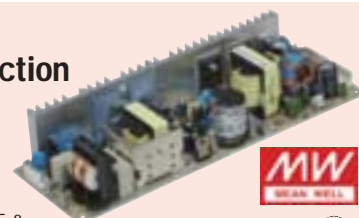
- Parallel operation (current sharing)
- Universal AC input
- 100% full-load burn-in
- Line regulation: $\pm 2.0\%$
- Load regulation: $\pm 2.0\%$
- Mating connectors: P/N 104432CE, pg 115 & 103587CE, pg 135
- 0° to +70°C working temp. (see www.Jameco.com)
- Size: 6.8"L x 3.8"W x 1.26"H
- Two-year warranty



150-Watt Open Frame with Power Factor Correction

LPP-150 Series: Single Output

- 100% full-load burn-in
- Voltage adjustment: 10%
- Line regulation: $\pm 0.5\%$
- Auto-switch AC input
- Load regulation: 213680CE, 375064CE & 392770CE: $\pm 1.0\%$; 213671CE, 216645CE & 392788CE: $\pm 0.5\%$
- Mating connectors: P/N 215950CE & 215968CE, pg 115
- -10°C to +60°C working temp. (see www.Jameco.com)
- Size: 8.74"L x 2.95"W x 1.61"H
- Three-year warranty



Enclosed Power Supplies on pages 178-185.

For Complete Specifications visit www.Jameco.com.

SALE

Other Versions Available: Call 800-831-4242

Jameco Part No.	Manufacturer	Product No.	Output		Input (VAC @ Hz)	Ripple & Noise (mV p-p)*	Certification	Pricing		
			Voltage@Current (min-max)	Power				1	10	25
218982CE	Artesyn	NFS110-7612	+12V@0-9A	108.0W	85-264@47-440	120	UL/CUL/CSA/VDE/CE	\$88.79	\$80.68	\$73.35
375056CE	Mean Well	PD-110B	+5V@0.5-5A; +24V@0.5-3.5A	109.0W	100-264@47-63	100	UL/CUL/TUV/CE	62.69	58.90	55.96
374088CE	Mean Well	PPS-125-12	+12V@0-10.5A	126.0W	90-264@47-63	100	UL/CUL/TUV/CE	93.99	79.84	74.45
374096CE	Mean Well	PPS-125-15	+15V@0-8.4A	126.0W	90-264@47-63	100	UL/CUL/TUV/CE	93.99	79.84	74.45
301428CE	Mean Well	PPS-125-24	+24V@0-5.2A	124.8W	90-264@47-63	150	UL/CUL/TUV/CE	93.99	79.84	74.45
301452CE	Mean Well	PPS-125-27	+27V@0-4.6A	124.2W	90-264@47-63	150	UL/CUL/TUV/CE	93.99	79.84	74.45
301479CE	Mean Well	PPS-125-48	+48V@0-2.6A	124.8W	90-264@47-63	250	UL/CUL/TUV/CE	93.99	79.84	74.45
301487CE	Mean Well	PPT-125B	+5V@1-14.4A; +12V@3-3.8A; -12V@0.05-.63A	124.5W	90-264@47-63	100	UL/CUL/TUV/CE	103.55	79.86	74.45
301495CE	Mean Well	PPT-125C	+5V@1-13.8A; +15V@2.5-3.1A; -15V@0.05-.63A	125.1W	90-264@47-63	100	UL/CUL/TUV/CE	103.55	79.86	74.45
218991CE	Artesyn	NLP150L-96S3	+3.3V@1-22A	72.6W	90-264@47-63	50	UL/CSA/VDE/CE	73.99	67.22	61.11
219011CE	Artesyn	NLP150L-96S5	+5.1V@1-22A	112.2W	90-264@47-63	50	UL/CSA/VDE/CE	73.95	67.22	61.11
219002CE	Artesyn	NLP150L-96S8	+24V@0.15-4.6A	110.4W	90-264@47-63	240	UL/CSA/VDE/CE	81.75	74.28	67.53
219029CE	Artesyn	NLP150L-96Q5366	+3.3V@0.5-10A; +5.1V@1.5-20A; +12V@0-2A; +12V@0-0.65A	120.0W	90-264@47-63	50	UL/CSA/VDE/CE	73.95	67.22	61.11
213680CE	Mean Well	LPP-150-12	+12V@0-12.5A	150.0W	85-264@47-63	100	UL/CUL/TUV/CE	68.45	64.60	61.37
392770CE	Mean Well	LPP-150-13.5	+13.5V@0-11.2A	151.2W	85-264@47-63	100	UL/CUL/TUV/CE	69.95	53.89	47.29
375064CE	Mean Well	LPP-150-15	+15V@0-10.0A	150.0W	85-264@47-63	100	UL/CUL/TUV/CE	68.45	64.60	61.37
213671CE	Mean Well	LPP-150-24	+24V@0-6.3A	150.0W	85-264@47-63	150	UL/CUL/TUV/CE	68.45	64.60	61.37
392788CE	Mean Well	LPP-150-27	+27V@0-5.6A	151.2W	85-264@47-63	150	UL/CUL/TUV/CE	69.95	53.89	47.29
216645CE	Mean Well	LPP-150-48	+48V@0-3.2A	153.6W	85-264@47-63	250	UL/CUL/TUV/CE	68.45	64.60	61.37

* Primary Output

Special Offers at Great Savings – 90-Day Warranty

Quantity SAVE

Jameco Part No.	Mfr.	Product No.	Output		Input (VAC @ Hz)	Size Inches (LxWxDia.)	Mounting Holes Inches (LxWxDia.)	Ripple & Noise (mV p-p)*	Load Reg. (%)	Line Reg. (%)	Certification	Pricing		
			Voltage@Current (min-max)	Power								1	10	25
354925CE	Phihong	PSF151-240C	+24VDC@6A	150.0W	90-264@47-63	8.0x4.2x1.5	—	240	3.0	0.5	UL/CUL/TUV/CE	\$39.95	\$35.95	\$32.36
196795CE	Cherokee	QP2A2-1A-A	+5V@40A; +12V@2.5A	230.0W	115/230@50-60	10.0x4.3x2.5	7.5x3.0x0.15	50	0.25	0.25	TUV	14.95	12.71	9.53
210905CE	Lambda	WA305-00-03	+5V@50A; +12V@10A; +24V@4A; -5.2V@4A; -12V@4A	300.0W	85-264@45-440	11.9x5.0x1.8	8.1x2.5x0.16	50	1.0	0.2	UL/CSA/CE	49.95	42.46	31.84
196461CE	TODD	MAX3541205AC	+5V@50A; +12V@12A; -5V@2A; -12V@4A	350.0W	115/230@50-60	9.0x5.0x2.5	6.5x3.9x0.08	50	1.0	1.0	TUV	47.95	40.79	30.59

♣ Pull = Extra Savings * Primary Output

Color Code Legend			
New	Sale	Lower\$	QtySave

Order 24/7 Toll Free 1-800-831-4242

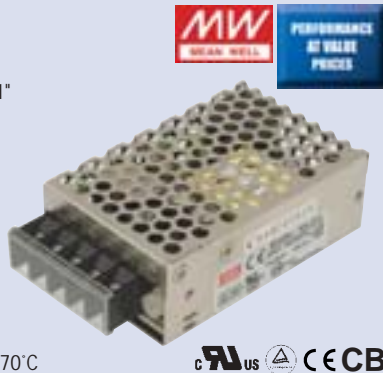
25 to 40-Watt Enclosed Switching AC-to-DC Power Supplies

Color Code Legend
New Sale Lower\$ QtySave

25-Watt Enclosed

RS-25 Series: Single Output

- New smaller design: 3.0" x 2" x 1.1"
- 3.66 watts/in³ power density
- 100% full-load burn-in
- Universal AC input:
88-264VAC @ 47-63Hz
- Short circuit/overload/
over-voltage protection
- 105°C output capacitor
- Withstanding voltage of 300VAC
surge input for 5 seconds
- Cooling by free air convection
- High operating temperature up to 70°C
- Mating connector: 103587CE, pg 135
- Three-year warranty



25-Watt Enclosed

S-25 Series: Single Output

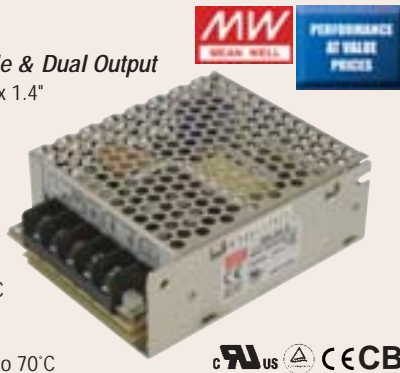
- 100% full-load burn-in
- Universal AC input:
88-264VAC @ 47-63Hz, 120-370VDC
- No minimum load required
- 1.2 watts/in³ maximum
- Voltage adjustment: 10%
- Mating connector: 103587CE, pg 135
- -10°C to +60°C working temperature
(see www.Jameco.com)
- Mounting hardware:
use P/Ns 222121CE, 222156CE,
222172CE & 222164CE; see www.Jameco.com for specifications
- Two-year warranty



35-Watt Enclosed

RS-35 & RD-35 Series: Single & Dual Output

- New smaller design: 3.9" x 3.2" x 1.4"
- 2 watts/in³ power density
- 100% full-load burn-in
- Universal AC input:
88-264VAC @ 47-63Hz
- Short circuit/overload/
over-voltage protection
- 105°C output capacitors
- Withstanding voltage of 300VAC
surge input for 5 seconds
- Cooling by free air convection
- High operating temperature up to 70°C
- Mating connector: 103587CE, pg 135
- Three-year warranty



40-Watt Enclosed

S-40 & T-40 Series: Single & Triple Output

- 100% full-load burn-in
- Universal AC input: 88-264VAC
@ 47-63Hz, 120-370VDC
- 1.6 watts/in³ maximum
- Voltage adjustment: 10%
- Mating connector:
P/N 103587CE, pg 135
- -10°C to +60°C working temperature
(see www.Jameco.com)
- Mounting hardware: use P/Ns 222121CE,
222156CE & 222172CE (see www.Jameco.com)
- Two-year warranty



Open-Frame Power Supplies
on pages 172-177.

For Complete Specifications visit www.Jameco.com.

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Quantities

Jameco Part No.	Manufacturer	Product No.	Output		Ripple & Noise (mV p-p)*	Load Reg. (±%)*	Line Reg. (±%)*	Certification	Pricing		
			Voltage@Current (min-max)	Power					1	10	25
323281CE	Mean Well	RS-25-5	+5V@0-5A	25.0W	80	1	0.5	UL/CUL/TUV/CE/CB	\$27.55	\$23.75	\$22.59
323299CE	Mean Well	RS-25-12	+12V@0-2.1A	25.2W	120	0.5	0.5	UL/CUL/TUV/CE/CB	27.55	23.75	22.59
323301CE	Mean Well	RS-25-15	+15V@0-1.7A	25.5W	120	0.5	0.5	UL/CUL/TUV/CE/CB	27.55	23.75	22.59
323310CE	Mean Well	RS-25-24	+24V@0-1.1A	26.4W	120	0.5	0.5	UL/CUL/TUV/CE/CB	27.55	23.75	22.59
123246CE	Mean Well	S-25-5	+5V@0-5A	25.0W	50	1	0.5	UL/TUV/CE	39.95	32.10	28.90
123254CE	Mean Well	S-25-12	+12V@0-2.1A	25.2W	100	0.5	0.5	UL/TUV/CE	39.95	32.10	28.90
123262CE	Mean Well	S-25-15	+15V@0-1.7A	25.5W	100	0.5	0.5	UL/TUV/CE	39.95	32.10	28.90
123271CE	Mean Well	S-25-24	+24V@0-1.1A	26.4W	100	0.5	0.5	UL/TUV/CE	39.95	32.10	28.90
323328CE	Mean Well	RS-35-5	+5V@0-7A	35.0W	80	1	0.5	UL/CUL/TUV/CE/CB	34.25	28.55	27.15
323336CE	Mean Well	RS-35-12	+12V@0-3A	36.0W	120	0.5	0.5	UL/CUL/TUV/CE/CB	34.25	28.55	27.15
323344CE	Mean Well	RS-35-15	+15V@0-2.4A	36.0W	120	0.5	0.5	UL/CUL/TUV/CE/CB	34.25	28.55	27.15
323352CE	Mean Well	RS-35-24	+24V@0-1.5A	36.0W	120	0.5	0.5	UL/CUL/TUV/CE/CB	34.25	28.55	27.15
323361CE	Mean Well	RD-35A	+5V@0.3-4A; +12V@0.2-1A	32.0W	80	0.5	0.5	UL/CUL/TUV/CE/CB	37.05	32.35	30.75
323379CE	Mean Well	RD-35B	+5V@0.3-4A; +24V@0.2-1.3A	51.2W	80	0.5	0.5	UL/CUL/TUV/CE/CB	37.05	32.35	30.75
123289CE	Mean Well	S-40-5	+5V@0-8A	40.0W	75	1	0.5	UL/CUL/TUV/CE/CB	44.95	38.60	34.70
123297CE	Mean Well	S-40-12	+12V@0-3.5A	42.0W	100	0.5	0.5	UL/CUL/TUV/CE/CB	44.95	38.60	34.70
202139CE	Mean Well	S-40-15	+15V@0-2.8A	42.0W	100	0.5	0.5	UL/CUL/TUV/CE/CB	44.95	38.60	34.70
123318CE	Mean Well	S-40-24	+24V@0-1.8A	43.0W	100	0.5	0.5	UL/CUL/TUV/CE/CB	44.95	38.60	34.70
201988CE	Mean Well	T-40A	+5V@0.6-3A; +12V@0.2-2A; -5V@0.1-0.5A	41.5W	100	0.5	0.5	CSA/CE	49.95	42.46	31.84
201996CE	Mean Well	T-40B	+5V@0.6-3A; +12V@0.2-2A; -12V@0.1-0.5A	45.0W	100	0.5	0.5	CSA/CE	49.95	42.10	37.90
202008CE	Mean Well	T-40C	+5V@0.6-3A; +15V@0.2-1.5A; -15V@0.1-0.5A	45.0W	100	0.5	0.5	CSA/CE	49.95	42.10	37.90

* Primary Output



We're Listening to Your Requests

Email us 24/7 at NewProducts@Jameco.com with suggestions for products you'd like to see in future catalogs.

50 to 75-Watt Enclosed Switching AC-to-DC Power Supplies

50-Watt Enclosed

**RS-50, RD-50,
RT-50, & RQ-50 Series:**
Single, Dual, Triple & Quad Output

- New smaller design: 3.9" x 3.8" x 1.4"
- 2.4 watts/in³ power density
- 100% full-load burn-in
- Universal AC input: 88-264VAC @ 47-63Hz
- Short circuit/overload/over-voltage protection
- 105°C output capacitors
- Withstanding voltage of 300VAC surge input for 5 seconds
- Cooling by free air convection
- High operating temperature up to 70°C
- Mating connector: 103587CE, pg 135
- Three-year warranty



UL US CE CB

60-Watt Enclosed

S-60, D-60, T-60 & Q-60 Series:
Single, Dual, Triple & Quad Outputs

- 100% full-load burn-in
- 1.7 watts/in³ maximum
- Voltage adjustment: 10%
- Universal AC input: 88-264VAC @ 47-63Hz, 120-370VDC
- Mating connector: P/N 103587CE, pg 135
- -10°C to +60°C working temperature (see www.Jameco.com)
- Mounting hardware: use P/Ns 222130CE, 222156CE & 222172CE (see www.Jameco.com)
- Two-year warranty



UL US CE CB

65-Watt Enclosed

RD-65, RT-65 & RQ-65 Series:
Dual, Triple & Quad Outputs

- New smaller design: 5.1" x 3.9" x 1.5"
- 2.2 watts/in³ power density
- 100% full-load burn-in
- 105°C output capacitors
- Universal AC input: 88-264VAC @ 47-63Hz
- Short circuit/overload/over-voltage protection
- Cooling by free air convection
- High operating temperature up to 70°C
- Withstanding voltage of 300VAC surge input for 5 seconds
- Mating connector: 103587CE, pg 135
- Three-year warranty



UL US CE CB

75-Watt Enclosed with Power Factor Correction

RS-75 Series: Single Output

- New smaller design: 5.1" x 3.9" x 1.5"
- 2.5 watts/in³ power density
- 100% full-load burn-in
- Universal AC input: 88-264VAC @ 47-63Hz
- Short circuit/overload/over-voltage protection
- 105°C output capacitor
- Withstanding voltage of 300VAC surge input for 5 seconds
- Cooling by free air convection
- High operating temperature up to 70°C
- Mating connector: 103587CE, pg 135
- Three-year warranty



UL US CE CB

Open-Frame Power Supplies
on pages 172-177.

For Complete Specifications visit www.Jameco.com.

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Quantities

Jameco Part No.	Manufacturer	Product No.	Output		Ripple & Noise (mV p-p)*	Load Reg. (±%)*	Line Reg. (±%)*	Certification	Pricing		
			Voltage@Current (min-max)	Power					1	10	25
323387CE	Mean Well	RS-50-5	+5V@0-10A	50.0W	80	1	0.5	UL/CUL/TUV/CE/CB	\$37.05	\$31.35	\$29.79
323395CE	Mean Well	RS-50-12	+12V@0-4.2A	50.4W	120	0.5	0.5	UL/CUL/TUV/CE/CB	37.05	31.35	29.79
323408CE	Mean Well	RS-50-15	+15V@0-3.4A	51.0W	120	0.5	0.5	UL/CUL/TUV/CE/CB	37.05	31.35	29.79
323416CE	Mean Well	RS-50-24	+24V@0-2.2A	52.8W	120	0.5	0.5	UL/CUL/TUV/CE/CB	37.05	31.35	29.79
323424CE	Mean Well	RD-50A	+5V@0.3-6A; +12V@0.3-3A	54.0W	80	0.5	0.5	UL/CUL/TUV/CE/CB	39.95	34.25	32.55
323432CE	Mean Well	RD-50B	+5V@0.3-6A; +24V@0.2-2A	53.6W	80	0.5	0.5	UL/CUL/TUV/CE/CB	39.95	34.25	32.55
323441CE	Mean Well	RT-50A	+5V@0.5-5A; +12V@0.2-2.5A; -5V@0.5-5A	46.5W	80	1	0.5	UL/CUL/TUV/CE/CB	41.85	36.15	34.35
323459CE	Mean Well	RT-50B	+5V@0.5-5A; +12V@0.2-2.5A; -12V@0.1-1A	50.0W	80	1	0.5	UL/CUL/TUV/CE/CB	41.85	36.15	34.35
323467CE	Mean Well	RT-50C	+5V@0.5-5A; +15V@0.2-2A; -15V@0.1-1A	50.0W	80	1	0.5	UL/CUL/TUV/CE/CB	41.85	36.15	34.35
323475CE	Mean Well	RT-50D	+5V@0.5-5A; +12V@0.1-1A; +24V@0.2-1.5A	51.0W	80	1	0.5	UL/CUL/TUV/CE/CB	41.85	36.15	34.35
323483CE	Mean Well	RQ-50B	+5V@0.5-6A; +12V@0.2-1.5A; -5V@0-1A; -12V@0-1A	45.5W	80	0.5	0.5	UL/CUL/TUV/CE/CB	43.75	37.05	35.25
323491CE	Mean Well	RQ-50D	+5V@0.5-6A; +12V@0.2-1.5A; +24V@0.1-1A; -12V@0-1A	53.4W	80	0.5	0.5	UL/CUL/TUV/CE/CB	43.75	37.05	35.25
123326CE	Mean Well	S-60-5	+5V@0-12A	60.0W	120	1	0.5	UL/CUL/TUV/CE/CB	53.95	48.55	42.99
123334CE	Mean Well	S-60-12	+12V@0-5A	60.0W	120	0.5	0.5	UL/CUL/TUV/CE/CB	53.95	41.50	37.30
123342CE	Mean Well	S-60-15	+15V@0-4A	60.0W	150	0.5	0.5	UL/CUL/TUV/CE/CB	53.95	41.50	37.30
123351CE	Mean Well	S-60-24	+24V@0-2.5A	60.0W	150	0.5	0.5	UL/CUL/TUV/CE/CB	53.95	41.50	37.30
123457CE	Mean Well	D-60A	+5V@0.3-4A; +12V@0.2-3A	56.0W	75	0.5	0.5	UL/CUL/TUV/CE/CB	54.95	44.10	39.70
123465CE	Mean Well	D-60B	+5V@0.3-3A; +24V@0.2-1.8A	58.0W	75	0.5	0.5	UL/CUL/TUV/CE/CB	54.95	44.10	39.70
123473CE	Mean Well	T-60A	+5V@0.5-5A; +12V@0.2-2.5A; -5V@0-0.5A	57.5W	100	1	0.5	UL/CUL/TUV/CE/CB	52.95	42.94	38.65
123481CE	Mean Well	T-60B	+5V@0.5-5A; +12V@0.2-2.5A; -12V@0-0.5A	61.0W	100	1	0.5	UL/CUL/TUV/CE/CB	57.95	47.00	42.30
123490CE	Mean Well	T-60C	+5V@0.5-5A; +15V@0.2-2A; -15V@0-0.5A	62.5W	100	1	0.5	UL/CUL/TUV/CE/CB	57.95	47.00	42.30
147045CE	Mean Well	Q-60B	+5V@0.5-5.5A; +12V@0.1-2A; -5V@0-0.5A; -12V@0-0.5A	60.0W	100	0.5	0.5	UL/CUL/CE/CB	59.95	49.90	44.90
323504CE	Mean Well	RD-65A	+5V@0.3-8A; +12V@0.2-4A	66.0W	80	0.5	0.5	UL/CUL/TUV/CE/CB	43.75	37.05	35.25
323512CE	Mean Well	RD-65B	+5V@0.3-8A; +24V@0.2-3A	68.0W	80	0.5	0.5	UL/CUL/TUV/CE/CB	43.75	37.05	35.25
323521CE	Mean Well	RT-65A	+5V@0.5-8A; +12V@0.2-3.5A; -5V@0-1A	66.1W	80	1	0.5	UL/CUL/TUV/CE/CB	47.55	39.95	37.95
323539CE	Mean Well	RT-65B	+5V@0.5-8A; +12V@0.2-3.5A; -12V@0-1A	64.6W	80	1	0.5	UL/CUL/TUV/CE/CB	47.55	39.95	37.95
323547CE	Mean Well	RT-65C	+5V@0.5-8A; +15V@0.2-3A; -15V@0-1A	65.5W	80	1	0.5	UL/CUL/TUV/CE/CB	47.55	39.95	37.95
323555CE	Mean Well	RT-65D	+5V@0.5-8A; +12V@0.1-1A; +24V@0.2-2A	68.0W	80	1	0.5	UL/CUL/TUV/CE/CB	47.55	39.95	37.95
323563CE	Mean Well	RQ-65B	+5V@0.5-8A; +12V@0.2-3A; -5V@0-1A; -12V@0-1A	62.5W	80	0.5	0.5	UL/CUL/TUV/CE/CB	48.45	40.85	38.85
323571CE	Mean Well	RQ-65D	+5V@0.5-8A; +12V@0.2-3A; +24V@0.1-1.5A; -12V@0-1A	68.0W	80	0.5	0.5	UL/CUL/TUV/CE/CB	48.45	40.85	38.85
323580CE	Mean Well	RS-75-5	+5V@0-12A	60.0W	80	1	0.5	UL/CUL/TUV/CE/CB	41.85	35.15	33.39
323598CE	Mean Well	RS-75-12	+12V@0-6A	72.0W	120	0.5	0.5	UL/CUL/TUV/CE/CB	41.85	35.15	33.39
323601CE	Mean Well	RS-75-15	+15V@0-5A	75.0W	120	0.5	0.5	UL/CUL/TUV/CE/CB	41.85	35.15	33.39
323619CE	Mean Well	RS-75-24	+24V@0-3.2A	76.8W	120	0.5	0.5	UL/CUL/TUV/CE/CB	41.85	35.15	33.39

* Primary Output

Color Code Legend
New Sale Lower\$ QtySave

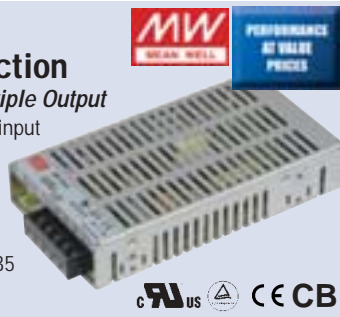
Order 24/7 Toll Free 1-800-831-4242

179

75-Watt Enclosed with Power Factor Correction

SP-75 & TP-75B Series: Single & Triple Output

- 100% full-load burn-in • Universal AC input
- 2.1 watts/in³ max.
- Voltage adjustment: 10%
- Input: 85-264VAC @ 47-63Hz, 120-370VDC
- No minimum load required
- Mating connector: P/N 103587CE, pg 135
- -10°C to +60°C working temperature (see www.Jameco.com)
- Mounting hardware: use P/Ns 222156CE, 222164CE & 222172CE; (see www.Jameco.com for specifications) • Three-year warranty

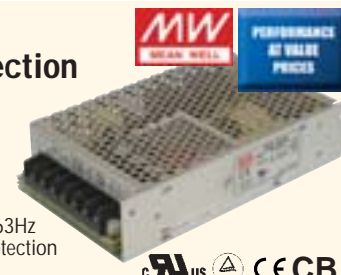


UL US CE CB

85-Watt Enclosed with Power Factor Correction

RD-85, RT-85 & RQ-85 Series: Dual, Triple & Quad Output

- New smaller design: 6.3" x 3.8" x 1.5"
- 2.4 watts/in³ power density
- 100% full-load burn-in
- Universal AC input: 88-264VAC @ 47-63Hz
- Short circuit/overload/over-voltage protection
- 105°C output capacitors
- Withstanding voltage of 300VAC surge input for 5 seconds
- Cooling by free air convection • High operating temperature up to 70°C
- Mating connector: 103587CE, pg 135 • Three-year warranty



UL US CE CB

100-Watt Enclosed

RS-100 Series: Single Output

- New smaller design: 7.8" x 3.9" x 1.5"
- 2.7 watts/in³ power density
- 100% full-load burn-in
- Universal AC input: 88-264VAC @ 47-63Hz
- 105°C output capacitor
- Cooling by free air convection
- High operating temperature up to 70°C
- Short circuit/overload/over-voltage protection
- Withstanding voltage of 300VAC surge input for 5 seconds
- Mating connector: 103587CE, pg 135 • Three-year warranty



UL US CE CB

100-Watt Enclosed

S-100F Series: Single Output

- 100% full-load burn-in • 2.3 watts/in³ max.
- Voltage adjustment: 10%
- No minimum load required
- Universal AC input: 88-132/176-264VAC @ 47-63Hz
- Mating connector: P/N 103587CE, pg 135
- -10°C to +60°C working temperature (see www.Jameco.com)
- Mounting hardware: use P/Ns 222130CE, 222156CE and 222172CE (see www.Jameco.com for specifications) • Two-year warranty



UL US CE CB

100-Watt Enclosed with Power Factor Correction

SP-100 & TP-100 Series: Single & Triple Outputs

- 100% full-load burn-in • Universal AC input: 86-264VAC @ 47-63Hz, 120-370VDC
- 2.3 watts/in³ maximum • Voltage adjustment: 10%
- Mating connector: P/N 103587CE, pg 135 • Three-year warranty
- -10°C to +60°C working temperature (see www.Jameco.com)
- Mounting hardware use P/Ns 222130CE, 222164CE, 222156CE, 222172CE & 222181CE (see www.Jameco.com for specifications)



UL US CE CB



Open-Frame Power Supplies on pages 172-177.

Call for LOWER PRICES on Larger Quantities

For Complete Specifications visit www.Jameco.com.

SALE

Jameco Part No.	Manufacturer	Product No.	Output		Ripple & Noise (mV p-p)*	Load Reg. (%)	Line Reg. (%)	Certification	Pricing		
			Voltage@Current (min-max)	Power					1	10	25
194829CE	Mean Well	SP-75-5	+5V@0-15A	75.0W	80	1	0.5	UL/CUL/TUV/CE/CB	\$59.95	\$53.96	\$48.56
194837CE	Mean Well	SP-75-12	+12V@0-6.3A	75.6W	80	0.5	0.5	UL/CUL/TUV/CE/CB	69.95	61.05	53.89
194845CE	Mean Well	SP-75-15	+15V@0-5A	75.0W	80	0.5	0.5	UL/CUL/TUV/CE/CB	69.95	61.05	53.89
194853CE	Mean Well	SP-75-24	+24V@0-3.2A	76.8W	100	0.5	0.5	UL/CUL/TUV/CE/CB	69.95	61.05	53.89
216805CE	Mean Well	SP-75-48	+48V@0-1.6A	76.8W	100	0.5	0.5	UL/CUL/TUV/CE/CB	64.95	55.21	41.41
375048CE	Mean Well	TP-75B	+5V@1.5-10A; +12V@0.2-4A; -12V@0-0.6A	75.8W	100	3	1	UL/CUL/TUV/CE/CB	78.85	74.10	70.40
323627CE	Mean Well	RD-85A	+5V@2-10A; +12V@0.3-5A	110.0W	80	1	0.5	UL/CUL/TUV/CE/CB	61.75	52.25	49.65
323635CE	Mean Well	RD-85B	+5V@2-10A; +24V@0.3-2.5A	110.0W	80	1	0.5	UL/CUL/TUV/CE/CB	61.75	52.25	49.65
323643CE	Mean Well	RT-85A	+5V@2-10A; +12V@0.3-4A; -5V@0-1A	84.5W	80	1	0.5	UL/CUL/TUV/CE/CB	66.55	57.05	54.25
323651CE	Mean Well	RT-85B	+5V@2-10A; +12V@0.3-4A; -12V@0-1A	88.0W	80	1	0.5	UL/CUL/TUV/CE/CB	66.55	57.05	54.25
323660CE	Mean Well	RT-85C	+5V@2-10A; +15V@0.3-4A; -15V@0-1A	87.5W	80	1	0.5	UL/CUL/TUV/CE/CB	66.55	57.05	54.25
323678CE	Mean Well	RT-85D	+5V@2-10A; +12V@0.1-1A; +24V@0.3-2.5A	90.0W	80	1	0.5	UL/CUL/TUV/CE/CB	66.55	57.05	54.25
323686CE	Mean Well	RQ-85B	+5V@2-10A; +12V@0.3-4A; -5V@0-1A; -12V@0-1A	80.7W	80	1	0.5	UL/CUL/TUV/CE/CB	68.45	57.95	55.05
323694CE	Mean Well	RQ-85D	+5V@2-10A; +12V@0.3-4A; +24V@0.1-1.5A; -12V@0-1A	84.0W	80	1	0.5	UL/CUL/TUV/CE/CB	68.45	57.95	55.05
323707CE	Mean Well	RS-100-5	+5V@0-16A	80.0W	80	1	0.5	UL/CUL/TUV/CE/CB	57.95	49.45	46.99
323715CE	Mean Well	RS-100-12	+12V@0-8.5A	102.0W	120	0.5	0.5	UL/CUL/TUV/CE/CB	57.95	49.45	46.99
323723CE	Mean Well	RS-100-15	+15V@0-7A	105.0W	120	0.5	0.5	UL/CUL/TUV/CE/CB	57.95	49.45	46.99
323731CE	Mean Well	RS-100-24	+24V@0-4.5A	108.0W	120	0.5	0.5	UL/CUL/TUV/CE/CB	57.95	49.45	46.99
201961CE	Mean Well	S-100F-5	+5V@0-20A	100.0W	100	1	0.5	UL/TUV/CE/CB	66.95	56.91	42.68
374918CE	Mean Well	S-100F-7.5	+7.5V@0-13.5A	101.0W	125	0.5	0.5	UL/CUL/TUV/CE/CB	66.95	49.90	44.90
123385CE	Mean Well	S-100F-12	+12V@0-8.5A	102.0W	125	0.5	0.5	UL/TUV/CE/CB	66.95	49.90	44.90
121450CE	Mean Well	S-100F-15	+15V@0-6.7A	100.5W	125	0.5	0.5	UL/TUV/CE/CB	66.95	49.90	44.90
201970CE	Mean Well	S-100F-24	+24V@0-4.5A	108.0W	150	0.5	0.5	UL/TUV/CE/CB	66.95	49.90	44.90
216792CE	Mean Well	S-100F-48	+48V@0-2.2A	105.6W	150	0.5	0.5	UL/TUV/CE/CB	66.95	49.90	44.90
194790CE	Mean Well	SP-100-5	+5V@0-20A	100.0W	100	1	0.5	UL/CUL/TUV/CE/CB	84.95	79.70	75.69
194802CE	Mean Well	SP-100-12	+12V@0-8.5A	102.0W	100	0.5	0.5	UL/CUL/TUV/CE/CB	84.95	79.70	75.69
212433CE	Mean Well	SP-100-15	+15V@0-6.7A	100.5W	100	0.5	0.5	UL/CUL/TUV/CE/CB	47.89	43.54	39.58
194811CE	Mean Well	SP-100-24	+24V@0-4.2A	100.8W	150	0.5	0.5	UL/CUL/TUV/CE/CB	84.95	72.21	54.16
394169CE	Mean Well	SP-100-27	+27V@0-3.8A	102.6W	150	0.5	0.5	UL/CUL/TUV/CE/CB	84.95	79.70	75.69
212425CE	Mean Well	SP-100-48	+48V@0-2.1A	100.8W	250	0.5	0.1	UL/CUL/TUV/CE/CB	59.95	53.96	48.56
213778CE	Mean Well	TP-100C	+5V@3-10A; +15V@0.4-3A; -15V@0-0.6A	104.0W	100	3	1	UL/CUL/TUV/CE/CB	89.95	76.46	59.99

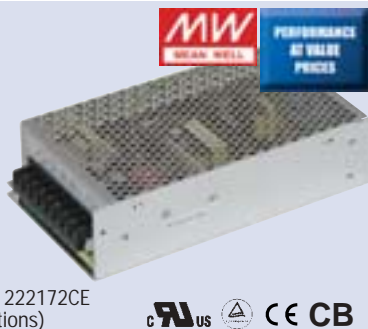
* Primary Output

120 to 150-Watt Enclosed Switching AC-to-DC Power Supplies

120-Watt Enclosed

D-120, T-120 & Q-120 Series:
Dual, Triple & Quad Outputs

- 100% full-load burn-in
- Mating connector:
P/N 103587CE, pg 135
- -10°C to +60°C working temperature
(see www.Jameco.com
for output derating)
- Mounting hardware:
use P/Ns 222130CE, 222156CE and 222172CE
(see www.Jameco.com for specifications)
- Two-year warranty



MEAN WELL
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PRICES

UL US CE CB

125-Watt Enclosed

RD-125, RT-125 & RQ-125 Series:
Dual, Triple & Quad Output

- New smaller design: 7.8" x 3.9" x 1.5"
- 2.7 watts/in³ power density
- 100% full-load burn-in
- 105°C output capacitors
- Universal AC input:
88-264VAC @ 47-63Hz
- Short circuit/overload/over-voltage protection
- Withstanding voltage of 300VAC surge input for 5 seconds
- High operating temperature up to 70°C
- Cooling by free air convection
- Mating connector: 103587CE, pg 135
- Three-year warranty



MEAN WELL
PERFORMANCE
AT VALUE
PRICES

UL US CE CB

150-Watt Enclosed

RS-150 Series: Single Output

- New smaller design: 7.8" x 3.9" x 1.5"
- 3.3 watts/in³ power density
- 100% full-load burn-in
- 105°C output capacitor
- Cooling by free air convection
- High operating
temperature up to 70°C
- Universal AC input:
88-264VAC @ 47-63Hz
- Short circuit/overload/over-voltage protection
- Withstanding voltage of 300VAC surge input for 5 seconds
- Mating connector: 103587CE, pg 135
- Three-year warranty



MEAN WELL
PERFORMANCE
AT VALUE
PRICES

UL US CE CB

150-Watt Enclosed

S-150 Series: Single Output

- 100% full-load burn-in
- No minimum load required
- Voltage adj.: 10%
- Mating connector:
P/N 103587CE, pg 135
- Input: 88-132/176-264 @ 47-63Hz
- -10° to +60°C working temperature
(see www.Jameco.com)
- Mounting hardware: use P/Ns 222130CE,
222156CE & 222172CE (see www.Jameco.com)
- Two-year warranty



MEAN WELL
PERFORMANCE
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PRICES

UL US CE CB

Open-Frame Power Supplies
on pages 172-177.

For Complete Specifications visit www.Jameco.com.

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PRICES on Larger
Quantities

Jameco Part No.	Manufacturer	Product No.	Output		Ripple & Noise (mV p-p)*	Load Reg. (%)	Line Reg. (%)	Certification	Pricing		
			Voltage@Current (min-max)	Power					1	10	25
132409CE	Mean Well	D-120A	+5V@2-12A; +12V@0.5-5A	120.0W	60	0.5	0.5	UL/CUL/TUV/CE/CB	\$69.95	\$58.29	\$51.69
132396CE	Mean Well	D-120B	+5V@2-6A; +24V@0.4-4A	126.0W	60	0.5	0.5	UL/CUL/TUV/CE/CB	69.95	58.29	51.69
301508CE	Mean Well	T-120B	+5V@2-12A; +12V@0.5-5A; -12V@0.2-1A	121.0W	80	0.5	0.5	UL/CUL/TUV/CE/CB	74.95	61.04	53.89
301516CE	Mean Well	T-120C	+5V@2-12A; +15V@0.5-5A; -15V@0.2-1A	117.5W	80	0.5	0.5	UL/CUL/TUV/CE/CB	74.95	61.04	53.89
132388CE	Mean Well	Q-120B	+5V@2-11A; -5V@0.2-1A; +12V@0.5-4A; -12V@0.2-1A	120.0W	80	0.5	0.5	UL/CUL/TUV/CE/CB	79.95	67.96	50.97
132370CE	Mean Well	Q-120D	+5V@2-8A; +24V@0.2-2A; +12V@0.2-2A; -12V@0.2-1A	124.0W	80	0.5	0.5	UL/CUL/TUV/CE/CB	79.95	63.79	56.09
323740CE	Mean Well	RD-125A	+5V@2-15A; +12V@0.5-10A	130.9W	80	3	1	UL/CUL/TUV/CE/CB	64.65	55.15	52.39
323758CE	Mean Well	RD-125B	+5V@2-10A; +24V@0.4-5A	133.4W	80	3	1	UL/CUL/TUV/CE/CB	64.65	55.15	52.39
323766CE	Mean Well	RT-125A	+5V@2-15A; +12V@0.5-6A; -5V@0.1-1A	131.0W	80	1	0.5	UL/CUL/TUV/CE/CB	70.35	60.85	57.85
323774CE	Mean Well	RT-125B	+5V@2-15A; +12V@0.5-6A; -12V@0.1-1A	132.0W	80	1	0.5	UL/CUL/TUV/CE/CB	70.35	60.85	57.85
323782CE	Mean Well	RT-125C	+5V@2-15A; +15V@0.5-6A; -15V@0.1-1A	132.5W	80	1	0.5	UL/CUL/TUV/CE/CB	70.35	60.85	57.85
323791CE	Mean Well	RT-125D	+5V@2-15A; +12V@0.1-2A; +24V@0.4-4A	136.0W	80	1	0.5	UL/CUL/TUV/CE/CB	70.35	60.85	57.85
323803CE	Mean Well	RQ-125B	+5V@2-12A; +12V@0.5-4.5A; -5V@0.1-1A; -12V@0.1-1A	120.0W	80	1	0.5	UL/CUL/TUV/CE/CB	72.25	62.75	59.65
323811CE	Mean Well	RQ-125D	+5V@2-12A; +12V@0.5-4A; +24V@0.1-2.5A; -12V@0-1A	124.0W	80	1	0.5	UL/CUL/TUV/CE/CB	72.25	62.75	59.65
323820CE	Mean Well	RS-150-5	+5V@0-26A	130.0W	80	1	0.5	UL/CUL/TUV/CE/CB	61.75	53.25	50.59
323838CE	Mean Well	RS-150-12	+12V@0-12.5A	150.0W	120	0.5	0.5	UL/CUL/TUV/CE/CB	61.75	53.25	50.59
323846CE	Mean Well	RS-150-15	+15V@0-10A	150.0W	120	0.5	0.5	UL/CUL/TUV/CE/CB	61.75	53.25	50.59
323854CE	Mean Well	RS-150-24	+24V@0-6.5A	156.0W	120	0.5	0.5	UL/CUL/TUV/CE/CB	61.75	53.25	50.59
323862CE	Mean Well	RS-150-48	+48V@0-3.3A	158.4W	200	0.5	0.5	UL/CUL/TUV/CE/CB	61.75	53.25	50.59
123393CE	Mean Well	S-150-5	+5V@0-30A	150.0W	150	0.5	0.5	UL/CUL/TUV/CE/CB	64.79	58.30	52.50
123414CE	Mean Well	S-150-7.5	+7.5V@0-20A	150.0W	150	0.5	0.5	UL/CUL/TUV/CE/CB	64.79	58.30	52.50
123422CE	Mean Well	S-150-12	+12V@0-12.5A	150.0W	180	0.3	0.3	UL/CUL/TUV/CE/CB	64.79	58.30	52.50
202024CE	Mean Well	S-150-13.5	+13.5V@0-11.2A	151.2W	180	0.3	0.3	UL/CUL/TUV/CE/CB	64.79	58.30	52.50
123431CE	Mean Well	S-150-15	+15V@0-10A	150.0W	180	0.3	0.3	UL/CUL/TUV/CE/CB	64.79	58.30	52.50
123449CE	Mean Well	S-150-24	+24V@0-6.5A	156.0W	240	0.2	0.2	UL/CUL/TUV/CE/CB	69.95	58.30	52.50
202032CE	Mean Well	S-150-27	+27V@0-5.6A	151.2W	240	0.2	0.2	UL/CUL/TUV/CE/CB	64.79	55.07	41.30
167345CE	Mean Well	S-150-48	+48V@0-3.2A	153.6W	240	0.2	0.2	UL/CUL/TUV/CE/CB	64.79	58.30	52.50

* Primary Output

Special Offers at Great Savings – 90-Day Warranty

SALE

Jameco Part No.	Manufacturer	Product No.	Output		Ripple & Noise (mV p-p)*	Load Reg. (%)	Line Reg. (%)	Certification	Pricing		
			Voltage@Current (min-max)	Power					1	10	25
323871CE	Volgen	SP100U-24S	+24V@4.4A	105.6W	150	0.4	0.2	—	\$49.95	\$44.96	\$40.46
205858CE	Volgen	JRK-115B	+5V@4.5A; +15V@3.5A; +24V@0.4A; -5V@1.6A; -15V@1.5A	75.0W	100	0.8	0.4	—	17.99	16.37	14.88

* Primary Output

Color Code Legend
New Sale Lower\$ QtySave

Order 24/7 Toll Free 1-800-831-4242

150 to 240-Watt Enclosed Switching AC-to-DC Power Supplies

Color Code Legend
New Sale Lower\$ QtySave

150-Watt Enclosed with Power Factor Correction

SP-150, TP-150 & QP-150 Series:
Single, Triple & Quad Outputs

- 100% full-load burn-in
- Input: 85-264VAC, 120-370VDC
- Mating connector: P/N 103587CE, pg 135
- -10°C to +60°C working temperature (see www.Jameco.com)
- Mounting hardware: use P/Ns 222130CE, 222156CE, 222164CE, 222181CE & 222172CE (see www.Jameco.com for specifications)
- Three-year warranty



MEAN WELL PERFORMANCE AT VALUE PRICES

200-Watt Enclosed with Power Factor Correction

SP-200 Series: Single Output

- 100% full-load burn-in
- Universal AC input
- No minimum load required
- 3.3 watts/in³ maximum
- Built-in fan cooling
- Input: 85-264VAC @ 47-63Hz, 120-370VDC
- Voltage adjustment: 10%
- Mating connector: P/N 103587CE, pg 135
- -10°C to +60°C working temperature (see www.Jameco.com)
- Mounting hardware use P/Ns 222130CE, 222156CE, 222164CE, 222181CE & 222172CE (see www.Jameco.com for specifications)
- Three-year warranty



MEAN WELL PERFORMANCE AT VALUE PRICES

200-Watt Enclosed with Power Factor Correction

QP-200 Series: Quad Output

- 100% full-load burn-in
- Input: 85-264VAC, 120-370VDC
- Remote sense
- 2.6 watts/in³ maximum
- Built-in fan cooling
- Mating connector: P/N 103587CE, pg 135
- -10°C to +60°C working temperature (see www.Jameco.com)
- Mounting hardware use P/Ns 222156CE, 222181CE & 222172CE (see www.Jameco.com for specifications)
- Three-year warranty



MEAN WELL PERFORMANCE AT VALUE PRICES

240-Watt Enclosed

S-240 Series: Single Output

- 100% full-load burn-in
- Auto-switch AC input
- No minimum load required
- 3.4 watts/in³ maximum
- Auto cooling fan
- Voltage adjustment: 10%
- Mating connector: P/N 103587CE, pg 135
- Input: 88-132/176-264VAC @ 47-63Hz
- -10°C to +60°C working temperature (see www.Jameco.com)
- Mounting hardware use P/Ns 222156CE & 222172CE (see www.Jameco.com for specifications)
- Two-year warranty



MEAN WELL PERFORMANCE AT VALUE PRICES

Open-Frame Power Supplies on pages 172-177.

For Complete Specifications visit www.Jameco.com.

Call for LOWER PRICES on Larger Quantities

SALE

Jameco Part No.	Manufacturer	Product No.	Output		Ripple & Noise (mV p-p)*	Load Reg. (±%)*	Line Reg. (±%)*	Certification	Pricing		
			Voltage@Current (min-max)	Power					1	10	25
201902CE	Mean Well	SP-150-3.3	+3.3V@0-30A	99.0W	100	1	0.5	UL/CUL/TUV/CE/CB	\$82.75	\$70.34	\$52.75
201911CE	Mean Well	SP-150-5	+5V@0-30A	150.0W	100	1	0.5	UL/CUL/TUV/CE/CB	74.95	63.71	54.03
173420CE	Mean Well	SP-150-12	+12V@0-12.5A	150.0W	100	0.5	0.5	UL/CUL/TUV/CE/CB	94.95	90.21	85.70
394193CE	Mean Well	SP-150-13.5	+13.5V@0-11.2A	151.2W	100	0.5	0.5	UL/CUL/TUV/CE/CB	94.95	90.21	85.70
173411CE	Mean Well	SP-150-15	+15V@0-10A	150.0W	100	0.5	0.5	UL/CUL/TUV/CE/CB	94.95	91.21	85.70
173403CE	Mean Well	SP-150-24	+24V@0-6.3A	150.0W	150	0.5	0.5	UL/CUL/TUV/CE/CB	94.95	90.21	85.70
201929CE	Mean Well	SP-150-48	+48V@0-3.2A	153.6W	250	0.5	0.5	UL/CUL/TUV/CE/CB	74.95	63.71	47.78
213831CE	Mean Well	TP-150C	+5V@2-15A; +15V@0.4-4.5A; -15V@0-0.6A	151.5W	100	3	1	UL/CUL/TUV/CE/CB	93.25	83.89	75.50
213647CE	Mean Well	QP-150F	+5V@3-10A; +15V@0-3A; +24V@0.4-2A; -15V@0-0.6A	152.0W	120	2	1	UL/CUL/TUV/CE/CB	145.95	124.06	93.04
202041CE	Mean Well	SP-200-5	+5V@0-40A	200.0W	100	1	0.5	UL/CUL/TUV/CE/CB	102.95	85.79	74.79
194773CE	Mean Well	SP-200-12	+12V@0-16.7A	200.4W	100	0.5	0.5	UL/CUL/TUV/CE/CB	102.95	92.66	83.39
212409CE	Mean Well	SP-200-13.5	+13.5V@0-14.9A	201.1W	100	0.5	0.5	UL/CUL/TUV/CE/CB	102.95	92.66	83.39
202059CE	Mean Well	SP-200-15	+15V@0-13.4A	201.0W	100	0.5	0.5	UL/CUL/TUV/CE/CB	102.95	92.66	83.39
194781CE	Mean Well	SP-200-24	+24V@0-8.4A	201.6W	150	0.5	0.5	UL/CUL/TUV/CE/CB	102.95	92.66	83.39
202067CE	Mean Well	SP-200-48	+48V@0-4.2A	201.6W	250	0.5	0.5	UL/CUL/TUV/CE/CB	102.95	92.66	83.39
213751CE	Mean Well	QP-200D	+5V@3-15A; +12V@0-4A; +24V@0.4-3A; -12V@0-0.7A	204.9W	100	2	1	UL/CUL/TUV/CE/CB	156.95	127.99	112.99
202083CE	Mean Well	S-240-5	+5V@0-40A	200.0W	150	1	0.5	UL/CUL/TUV/CE/CB	80.05	72.76	66.14
137648CE	Mean Well	S-240-12	+12V@0-18A	216.0W	150	0.5	0.5	UL/CUL/TUV/CE/CB	109.95	98.95	89.09
202075CE	Mean Well	S-240-15	+15V@0-15A	225.0W	150	0.5	0.5	UL/CUL/TUV/CE/CB	94.95	85.46	76.91
137656CE	Mean Well	S-240-24	+24V@0-10A	240.0W	180	0.5	0.5	UL/CUL/TUV/CE/CB	109.95	98.95	89.09
392833CE	Mean Well	S-240-30	+30V@0-8A	240.0W	180	0.5	0.5	UL/CUL/TUV/CE/CB	99.95	93.95	89.25
167337CE	Mean Well	S-240-48	+48V@0-5A	240.0W	240	1	1	UL/CUL/TUV/CE/CB	109.95	98.95	89.09

* Primary Output ☑ Blue Part No. = Limited Quantity Available

Special Offers at Great Savings – 90-Day Warranty

Jameco Part No.	Manufacturer	Product No.	Output		Ripple & Noise (mV p-p)*	Load Reg. (±%)*	Line Reg. (±%)*	Certification	Pricing		
			Voltage@Current (min-max)	Power					1	10	25
199515CE	Globtek	RT-3S150-24	24V@6.5A	156.0W	100	5	5	UL/CE	\$59.95	\$47.95	\$35.95
371012CE	Potrans	GL150W-24-NC	24V@6.5A	156.0W	150	—	—	UL/CUL/TUV/CE	56.95	45.55	34.15

* Primary Output

300 to 480-Watt Enclosed Switching AC-to-DC Power Supplies

300-Watt Enclosed with Power Factor Correction

PSP-300 Series: Single Output

- 100% full-load burn-in
- Input: 88-264VAC, 120-370VDC
- Forced air cooling by built-in DC fan
- Built-in active PFC function
- Built-in cooling fan ON-OFF
- Built-in remote ON-OFF control
- Built-in remote sense function
- With power good & fail signal output
- Short circuit/overload/over-voltage/over-temperature protection
- Mating connector: P/N 103587CE or 302877CE, pg 135
- Input: 88-264VAC@47-63Hz/124-370VDC
- Working temperature: -10°C to +50°C (see www.Jameco.com for specifications)
- Three-year warranty



UL US CE CB

300 & 320-Watt Enclosed with Power Factor Correction

SP-300 & SP-320 Series: Single Output

- 100% full-load burn-in
- Universal AC input
- No minimum load required
- Auto cooling fan
- Voltage adj.: 10%
- Input: 88-264VAC @ 47-63Hz, 120-370VDC
- Mating connector: P/N 103587CE, pg 135
- Working temperature: SP-300: -10° to +60°C; SP-320: -20° to 65° (see www.Jameco.com)
- Mounting hardware: use P/Ns 222156CE, 222130CE, 222181CE & 222172CE (see www.Jameco.com for specifications)
- Three-year warranty



UL US CE CB

320-Watt Enclosed

S-320 Series: Single Output

- 100% full-load burn-in
- Auto cooling fan
- No minimum load required
- 4.1 watts/in³ maximum
- Voltage adjustment: 10%
- Input: 88-132/176-264VAC @ 47-63Hz
- Mating connector: P/N 103587CE, pg 135
- -10° to +60°C working temperature (see www.Jameco.com)
- Mounting hardware: use P/Ns 222156CE, 222181CE & 222172CE (see www.Jameco.com)
- Two-year warranty



UL US

480-Watt Enclosed with Power Factor Correction

SP-480 Series: Single Output

- Input: 85-264VAC, 120-370VDC
- -20°C to +60°C working temperature (see www.Jameco.com)
- Short circuit/overload/over-voltage/over-temperature protection
- Built-in remote ON-OFF control
- Built-in remote sense function
- High power density: 5.18 watts/in³ maximum
- Active AC surge current limiting
- Inrush current: 25A@115VAC
- Leakage current: <2mA @ 240VAC
- Size: 10.9"L x 5.0"W x 1.7"H
- Three-year warranty



UL US CE CB

Open-Frame Power Supplies on pages 172-177.

For Complete Specifications visit www.Jameco.com.

Call for LOWER PRICES on Larger Quantities

Jameco Part No.	Manufacturer	Product No.	Output		Ripple & Noise (mV p-p)*	Load Reg. (±%)*	Line Reg. (±%)*	Certification	Pricing		
			Voltage@Current (min-max)	Power					1	10	25
374168CE	Mean Well	PSP-300-12	+12V@0-25A	300.0W	200	0.5	0.3	UL/CUL/TUV/CE/CB	\$178.65	\$169.10	\$160.65
374176CE	Mean Well	PSP-300-13.5	+13.5V@0-22A	297.0W	200	0.5	0.3	UL/CUL/TUV/CE/CB	178.65	169.10	160.65
374184CE	Mean Well	PSP-300-24	+24V@0-12.5A	300.0W	200	0.5	0.2	UL/CUL/TUV/CE/CB	178.65	169.10	160.65
374192CE	Mean Well	PSP-300-27	+27V@0-11A	297.0W	200	0.5	0.2	UL/CUL/TUV/CE/CB	178.65	169.10	160.65
374205CE	Mean Well	PSP-300-48	+48V@0-6.5A	312.0W	240	0.5	0.2	UL/CUL/TUV/CE/CB	178.65	169.10	160.65
202091CE	Mean Well	SP-300-5	+5V@0-50A at 230VAC; 0-40A at 115VAC	250.0W	150	1	0.5	UL/CUL/TUV/CE/CB	169.95	144.46	108.34
137390CE	Mean Well	SP-300-12	+12V@0-24A at 230VAC; 0-19.2A at 115VAC	288.0W	150	0.5	0.3	UL/CUL/TUV/CE/CB	181.95	159.70	143.80
121396CE	Mean Well	SP-300-13.5	+13.5V@0-21A at 230VAC; 0-16.8A at 115VAC	285.0W	150	0.5	0.3	UL/CUL/TUV/CE/CB	181.95	154.66	115.99
202104CE	Mean Well	SP-300-15	+15V@0-19A at 230VAC; 0-15.2A at 115VAC	285.0W	150	0.5	0.3	UL/CUL/TUV/CE/CB	181.95	159.70	143.80
137402CE	Mean Well	SP-300-24	+24V@0-12.5A at 230VAC; 0-10A at 115VAC	300.0W	150	0.5	0.2	UL/CUL/TUV/CE/CB	181.95	159.70	143.80
394206CE	Mean Well	SP-300-27	+27V@0-11A	297.0W	200	0.5	0.2	UL/CUL/TUV/CE/CB	181.95	159.70	143.80
161980CE	Mean Well	SP-300-48	+48V@0-6.25A at 230VAC; 0-5A at 115VAC	300.0W	240	0.5	0.2	UL/CUL/TUV/CE/CB	181.95	154.66	115.99
244734CE	Mean Well	SP-320-5	+5V@0-55A at 230VAC; 0-44A at 115VAC	275.0W	150	1	0.5	UL/CUL/TUV/CE/CB	146.95	126.95	118.95
394214CE	Mean Well	SP-320-7.5	+7.5V@0-40A	300.0W	150	1	0.5	UL/CUL/TUV/CE/CB	146.95	126.95	118.99
244742CE	Mean Well	SP-320-12	+12V@0-25A at 230VAC; 0-20A at 115VAC	300.0W	150	0.5	0.3	UL/CUL/TUV/CE/CB	146.95	126.95	118.95
244751CE	Mean Well	SP-320-24	+24V@0-13A at 230VAC; 0-10.4A at 115VAC	312.0W	150	0.5	0.2	UL/CUL/TUV/CE/CB	146.95	126.95	118.95
244769CE	Mean Well	SP-320-48	+48V@0-6.7A at 230VAC; 0-5.4A at 115VAC	321.6W	240	0.5	0.2	UL/CUL/TUV/CE/CB	146.95	126.95	118.95
216776CE	Mean Well	S-320-5	+5V@0-50A	250.0W	150	1	0.5	UL/CUL	124.95	106.21	79.66
207212CE	Mean Well	S-320-7.5	+7.5V@0-36A	270.0W	150	0.5	0.5	UL/CUL	124.95	112.80	101.50
207204CE	Mean Well	S-320-12	+12V@0-25A	300.0W	150	0.5	0.5	UL/CUL	124.95	112.80	101.50
374993CE	Mean Well	S-320-15	+15V@0-20A	300.0W	150	0.5	0.5	UL/CUL	146.95	126.95	118.99
196656CE	Mean Well	S-320-24	+24V@0-12.5A	300.0W	150	0.5	0.5	UL/CUL	124.95	112.80	101.50
207191CE	Mean Well	S-320-48	+48V@0-6.5A	312.0W	240	0.5	0.5	UL/CUL	124.95	112.80	101.50
301372CE	Mean Well	SP-480-12	+12V@0-40A at 230VAC; 0-36A at 115VAC	480.0W	120	0.5	0.3	UL/CUL/TUV/CE/CB	293.95	253.68	228.33
301321CE	Mean Well	SP-480-24	+24V@0-20A at 230VAC; 0-18A at 115VAC	480.0W	150	0.5	0.2	UL/CUL/TUV/CE/CB	293.95	253.68	228.33
301401CE	Mean Well	SP-480-48	+48V@0-10A at 230VAC; 0-9A at 115VAC	480.0W	240	0.5	0.2	UL/CUL/TUV/CE/CB	293.95	253.68	228.33

* Primary Output

Other Versions Available: Call 800-831-4242

30-Day Money-Back Guarantee

If you're not completely satisfied with your purchase, simply return the product within 30 days for a refund or exchange. Details on page 284.

Color Code Legend
New Sale Lower\$ QtySave

Order 24/7 Toll Free 1-800-831-4242

183

500-Watt Enclosed with Power Factor Correction

SP-500 Series: Single Output

- 100% full-load burn-in
- Input: 88-264VAC, 120-370VDC
- 3.6 watts/in³ maximum • Remote control
- Auto cooling fan • Voltage adjustment: 10%
- No minimum load required
- Input: 100-240VAC @ 50-60Hz
- Mating connector: P/N 103587CE pg 135
- Mounting hardware: use P/Ns 222199CE, 222156CE & 222172CE (see www.Jameco.com)
- -10° to +60°C working temp. (see www.Jameco.com)
- Three-year warranty



UL US CB

600-Watt Enclosed SE-600 Series: Single Output

- AC input range switch selectable
- AC input active surge current limiting
- Inrush current: 30A @ 115VAC
- Leakage current: <2mA @ 240VAC
- Short circuit/overload/over-voltage/over-temperature protection
- -20° to +60°C working temperature (see www.Jameco.com)
- Size: 9.7"L x 5.0"W x 2.5"H
- Two-year warranty



UL US CB

600-Watt Enclosed with Current Sharing

SCN-600 Series: Single Output

- 100% full-load burn-in
- Auto cooling fan
- No minimum load required
- Voltage adjustment: 5%
- 3.7 watts/in³ maximum
- Universal AC input: 90-130/180-260VAC @ 47-63Hz
- Parallel operation (current sharing)
- Remote sense and control
- Mating connector: P/N 103587CE, pg 135
- -10° to +65°C working temperature; (+50° to -65°C @ 50% load) (see www.Jameco.com)
- Mounting hardware: use P/Ns 222156CE & 222172CE (see www.Jameco.com for specifications)
- Two-year warranty

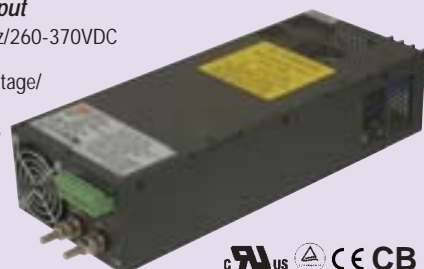


UL US CB

600-Watt Enclosed with Power Factor Correction

SCP-600 Series: Single Output

- Input: 180-260VAC @ 47-63Hz/260-370VDC
- PFC: >0.98 @ 230VAC
- Short circuit/overload/over-voltage/over-temperature protection
- Built-in remote sense function, and remote ON-OFF function
- Power good signal
- With parallel function (N + 1)
- Adjustable from 20% to 100% output voltage by external control 1V to 5V
- Forced air cooling by built-in DC fan
- Mating connector: P/N 103587CE or 302877CE, pg 135
- Working temperature: -20°C to +65°C (see www.Jameco.com for specifications)
- Three-year warranty



UL US CB

Open-Frame Power Supplies on pages 172-177.

For Complete Specifications visit www.Jameco.com.

Call for LOWER PRICES on Larger Quantities

Jameco Part No.	Manufacturer	Product No.	Output		Ripple & Noise (mV p-p)*	Load Reg. (±%)*	Line Reg. (±%)*	Certification	Pricing		
			Voltage@Current (min-max)	Power					1	10	25
190692CE	Mean Well	SP-500-12	+12V@0-40A at 230VAC; 0-34A at 115VAC	480.0W	240	0.5	0.5	UL/CUL/TUV/CE/CB	\$249.95	\$216.10	\$194.50
212388CE	Mean Well	SP-500-13.5	+13.5V@0-36A at 230VAC; 0-30.6A at 115VAC	486.0W	240	0.5	0.5	UL/CUL/TUV/CE/CB	249.95	212.46	159.34
213604CE	Mean Well	SP-500-15	+15V@0-32A at 230VAC; 0-27.2A at 115VAC	480.0W	240	0.5	0.5	UL/CUL/TUV/CE/CB	239.95	203.96	152.97
147053CE	Mean Well	SP-500-24	+24V@0-20A at 230VAC; 0-17A at 115VAC	480.0W	240	0.5	0.5	UL/CUL/TUV/CE/CB	249.95	216.10	194.50
190705CE	Mean Well	SP-500-27	+27V@0-18A at 230VAC; 0-15.3A at 115VAC	486.0W	200	0.5	0.5	UL/CUL/TUV/CE/CB	249.95	212.46	159.34
161795CE	Mean Well	SP-500-48	+48V@0-10A at 230VAC; 0-8.5A at 115VAC	480.0W	300	0.5	0.5	UL/CUL/TUV/CE/CB	249.95	216.10	194.50
374002CE	Mean Well	SE-600-05	+5V@0-100A	500.0W	150	2	0.5	UL/CUL	173.95	156.59	140.89
374011CE	Mean Well	SE-600-12	+12V@0-50A	600.0W	150	0.5	0.5	UL/CUL	173.95	156.59	140.89
291522CE	Mean Well	SE-600-15	+15V@0-40A	600.0W	150	0.5	0.5	UL/CUL/CB	173.95	156.59	140.89
295902CE	Mean Well	SE-600-24	+24V@0-25A	600.0W	150	0.5	0.5	UL/CUL/CB	173.95	156.59	140.89
295911CE	Mean Well	SE-600-27	+27V@0-22.2A	599.4W	150	0.5	0.5	UL/CUL/CB	173.95	156.59	140.89
295929CE	Mean Well	SE-600-48	+48V@0-12.5A	600.0W	200	0.5	0.5	UL/CUL/CB	173.95	156.59	140.89
220249CE	Mean Well	SCN-600-05	+5V@0-100A	500.0W	100	2	0.5	UL/CUL/CB	273.95	213.99	197.99
220257CE	Mean Well	SCN-600-12	+12V@0-50A	600.0W	120	1	0.5	UL/CUL/CB	273.95	213.99	197.99
374045CE	Mean Well	SCN-600-15	+15V@0-40A	600.0W	150	0.5	0.5	UL/CUL/CB	273.95	213.99	197.99
220265CE	Mean Well	SCN-600-24	+24V@0-25A	600.0W	240	1	0.5	UL/CUL/CB	273.95	213.99	197.99
374061CE	Mean Well	SCN-600-48	+48V@0-12A	600.0W	480	0.5	0.5	UL/CUL/CB	273.95	213.99	197.99
388631CE	Mean Well	SCP-600-12	+12V@0-50A	600.0W	120	0.5	0.5	UL/CUL/TUV/CE/CB	356.25	308.75	293.31
388640CE	Mean Well	SCP-600-15	+15V@0-40A	600.0W	140	0.5	0.5	UL/CUL/TUV/CE/CB	356.25	308.75	293.31
374264CE	Mean Well	SCP-600-24	+24V@0-25A	600.0W	240	0.5	0.5	UL/CUL/TUV/CE/CB	356.25	308.75	293.31
374301CE	Mean Well	SCP-600-48	+48V@0-12A	576.0W	480	0.5	0.5	UL/CUL/TUV/CE/CB	356.25	308.75	293.31

Other Versions Available: Call 800-831-4242

* Primary Output



Lowest Price Guarantee

Have you found a product at a lower print-advertised price? We'll beat that price by 10% right down to our cost!

500 to 1500-Watt Enclosed Switching AC-to-DC Power Supplies

500, 1000 & 1500-Watt Enclosed with Power Factor Correction & Current Sharing

PSP-500, PSP-1000 & PSP-1500 Series: Single Output

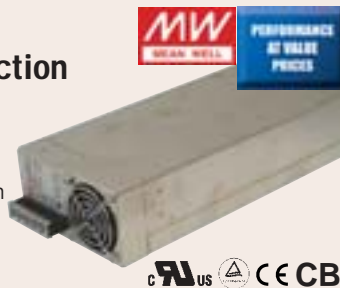
- 100% full-load burn-in • Voltage adj.: 10%
- No minimum load required • 3.6 watts/in³ maximum
- Auto cooling fan • Remote sense and control
- Universal AC input: 90-264VAC @ 47-63Hz, 127-370VDC (PSP-500 and PSP-1000) 176-264VAC @ 47-63Hz, 248-370VDC (PSP-1500)
- Parallel operation (current sharing)
- Mating connector: P/N 103587CE, pg 135
- -10° to +60°C working temp. (see www.Jameco.com for output derating)
- Mounting hardware: use P/Ns 222156CE & 222172CE (see www.Jameco.com for specifications) • Three-year warranty



750-Watt Enclosed with Power Factor Correction

SP-750 Series: Single Output

- 100% full-load burn-in
- Universal AC input: 88-264VAC @ 47-63Hz, 127-370VDC
- Short circuit/overload/over-volt protection
- Withstanding voltage of 300VAC surge input for 5 seconds
- High operating temperature up to 70°C
- Cooling by built-in fan
- Built-in active PFC function, PF>0.95
- Built-in constant current limiting circuit
- Built-in remote ON-OFF control
- Built-in remote sense function
- Mating connector: 103587CE, pg 135
- High power density: 5.48W/in³
- Power-good and fail-signal outputs
- Three-year warranty



600-Watt Enclosed with Power Factor Correction

PSP-600 Series: Single Output

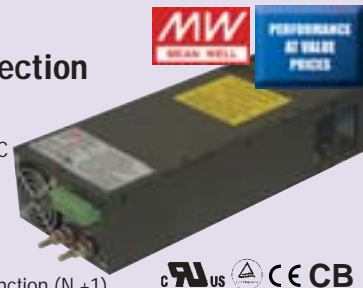
- Input: 88-264VAC, 124-370VDC
- Parallel function
- Built-in active PFC function
- Forced air cooling by built-in DC fan
- Built-in remote ON-OFF control, and remote sense function
- Current sharing up to 2400W (3 + 1)
- Short circuit/overload/over-voltage/over-temperature protection
- Input: 88-264VAC @ 47-64Hz/124-370VDC
- Mating connector: P/N 103587CE or 302877CE, pg 135
- Working temperature: -20°C to +50°C (see www.Jameco.com for specifications)
- Three-year warranty



800-Watt Enclosed with Power Factor Correction

SCP-800 Series: Single Output

- Input: 180-260VAC @ 47-63Hz/260-370VDC • PFC: >0.98 @ 230VAC
- Short circuit/overload/over-voltage/over-temperature protection
- Forced air cooling by built-in DC fan
- Built-in remote sense function, and remote ON-OFF function
- Power good signal • With parallel function (N + 1)
- Adjustable from 20% to 100% output voltage by external control 1V to 5V
- Mating connector: P/N 103587CE or 302877CE, pg 135
- Working temperature: -20°C to +65°C (see www.Jameco.com for specifications)
- Three-year warranty



Open-Frame Power Supplies on pages 172-177.

For Complete Specifications visit www.Jameco.com.

Call for LOWER PRICES on Larger Quantities

Quantity SAVE

Jameco Part No.	Manufacturer	Product No.	Output		Ripple & Noise (mV p-p)*	Load Reg. (%)	Line Reg. (%)	Certification	Pricing		
			Voltage@Current (min-max)	Power					1	10	25
190713CE	Mean Well	PSP-500-12	+12V@0-41.5A at 230VAC; 0-33.2A at 115VAC	498.0W	150	0.5	0.3	UL/CUL/TUV/CE/CB	\$269.95	\$232.09	\$216.69
202121CE	Mean Well	PSP-500-15	+15V@0-33A at 230VAC; 0-26.4A at 115VAC	498.0W	150	0.5	0.3	UL/CUL/TUV/CE/CB	249.95	212.46	159.34
190721CE	Mean Well	PSP-500-24	+24V@0-20.8A at 230VAC; 0-16.6A at 115VAC	499.2W	150	0.5	0.2	UL/CUL/TUV/CE/CB	269.95	242.96	218.66
190730CE	Mean Well	PSP-500-27	+27V@0-18.5A at 230VAC; 0-14.8A at 115VAC	499.5W	150	0.5	0.2	UL/CUL/TUV/CE/CB	269.95	229.46	172.09
190748CE	Mean Well	PSP-500-48	+48V@0-10.5A at 230VAC; 0-8.4A at 115VAC	504.0W	200	0.5	0.2	UL/CUL/TUV/CE/CB	269.95	229.46	172.09
374213CE	Mean Well	PSP-600-12	+12V@0-50A	600.0W	240	0.5	0.5	UL/CUL/TUV/CE/CB	199.99	191.19	181.65
374221CE	Mean Well	PSP-600-15	+15V@0-40A	600.0W	240	0.5	0.5	UL/CUL/TUV/CE/CB	199.99	191.19	181.65
374230CE	Mean Well	PSP-600-24	+24V@0-25A	600.0W	240	0.5	0.5	UL/CUL/TUV/CE/CB	199.99	191.19	181.65
374256CE	Mean Well	PSP-600-27	+27V@0-22.2A	600.0W	240	0.5	0.5	UL/CUL/TUV/CE/CB	199.99	191.19	181.65
374248CE	Mean Well	PSP-600-48	+48V@0-12.5A	600.0W	240	0.5	0.5	UL/CUL/TUV/CE/CB	199.99	191.19	181.65
319943CE	Mean Well	SP-750-12	+12V@0-62.5A	750.0W	120	2	0.5	UL/CUL/TUV/CE/CB	399.95	359.95	323.95
374029CE	Mean Well	SP-750-15	+15V@0-50A	750.0W	120	0.5	0.3	UL/CUL/TUV/CE/CB	399.95	359.95	323.95
320047CE	Mean Well	SP-750-24	+24V@0-31.3A	750.0W	120	0.5	0.2	UL/CUL/TUV/CE/CB	399.95	359.95	323.95
374037CE	Mean Well	SP-750-27	+27V@0-27.8A	750.0W	120	0.5	0.2	UL/CUL/TUV/CE/CB	399.95	359.95	323.95
320055CE	Mean Well	SP-750-48	+48V@0-15.7A	750.0W	120	0.5	0.2	UL/CUL/TUV/CE/CB	399.95	359.95	323.95
388615CE	Mean Well	SCP-800-12	+12V@0-66A	792.0W	120	0.5	0.5	UL/CUL/TUV/CE/CB	441.75	403.75	383.56
388623CE	Mean Well	SCP-800-15	+15V@0-53A	795.0W	150	0.5	0.5	UL/CUL/TUV/CE/CB	441.75	403.75	383.56
374310CE	Mean Well	SCP-800-24	+24V@0-33A	792.0W	240	0.5	0.5	UL/CUL/TUV/CE/CB	441.75	403.75	383.56
374336CE	Mean Well	SCP-800-48	+48V@0-16A	768.0W	480	0.5	0.5	UL/CUL/TUV/CE/CB	441.75	403.75	383.56
217373CE	Mean Well	PSP-1000-5	+5V@0-145A at 230VAC; 0-123.3A at 115VAC	725.0W	100	2	0.5	UL/CUL/TUV/CE/CB	499.95	424.96	318.72
217365CE	Mean Well	PSP-1000-12	+12V@0-75A at 230VAC; 0-63.8A at 115VAC	900.0W	150	0.5	0.3	UL/CUL/TUV/CE/CB	523.95	445.36	334.02
231642CE	Mean Well	PSP-1000-13.5	+13.5V@0-67A at 230VAC; 0-57.8A at 115VAC	1000.0W	150	0.5	0.3	UL/CUL/TUV/CE/CB	523.95	445.36	334.02
231634CE	Mean Well	PSP-1000-15	+15V@0-60A at 230VAC; 0-51A at 115VAC	900.0W	150	0.5	0.3	UL/CUL/TUV/CE/CB	523.95	445.36	334.02
217357CE	Mean Well	PSP-1000-24	+24V@0-37.6A at 230VAC; 0-32A at 115VAC	902.4W	150	0.5	0.2	UL/CUL/TUV/CE/CB	523.95	445.36	334.02
231651CE	Mean Well	PSP-1000-27	+27V@0-33.6A at 230VAC; 0-28.6A at 115VAC	907.2W	150	0.5	0.2	UL/CUL/TUV/CE/CB	523.95	445.36	334.02
217349CE	Mean Well	PSP-1000-48	+48V@0-19A at 230VAC; 0-16.2A at 115VAC	912.0W	200	0.5	0.2	UL/CUL/TUV/CE/CB	523.95	442.19	402.59
231669CE	Mean Well	PSP-1500-5	+5V@0-217.5A	1087.5W	100	2	0.5	UL/CUL/TUV/CE/CB	786.95	668.91	501.68
373261CE	Mean Well	PSP-1500-12	+12V@0-112.5A	1350.0W	150	0.5	0.3	UL/CUL/TUV/CE/CB	747.65	663.25	619.25
231693CE	Mean Well	PSP-1500-15	+15V@0-90.0A	1350.0W	150	0.5	0.3	UL/CUL/TUV/CE/CB	699.95	594.96	446.22
373923CE	Mean Well	PSP-1500-24	+24V@0-56.4A	1353.6W	150	0.5	0.2	UL/CUL/TUV/CE/CB	747.65	663.25	619.25
231714CE	Mean Well	PSP-1500-27	+27V@0-50.4A	1360.8W	150	0.5	0.2	UL/CUL/TUV/CE/CB	786.95	663.25	619.25
231722CE	Mean Well	PSP-1500-48	+48V@0-28.5A	1368.0W	200	0.5	0.2	UL/CUL/TUV/CE/CB	786.95	663.25	619.25

* Primary Output

Color Code Legend
New Sale Lower\$ QtySave

Order 24/7 Toll Free 1-800-831-4242

185

Power

DIN-Rail Switching AC-to-DC Power Supplies

Color Code Legend
New Sale Lower\$ QtySave



DIN-Rail Switching Power Supplies



373181CE (Fig. 1)



192698CE (Fig. 2)



212290CE
(Fig. 3)



212273CE
(Fig. 4)



221891CE
(Fig. 5)



252662CE
(Fig. 6)

- Low cost, high reliability
- Universal AC input range
- Soft-start circuit, limiting AC surge current
- Short-circuit, overload, over-voltage protected
- 100% full-load burn-in test
- For DIN-Rail terminal blocks see page 133

Part No.	Product No.	Fig.	Power (W)	Output Volts@Curr.	Input Voltage (VAC @ Hz/VDC)	Input Current @ Maximum Load	Size (L" x W" x H")	Wt. (lbs.)	1	10	25
373173CE	DR-30-5	1	15	5VDC @ 3A	85-264 @ 47-63/120-370	1.1A(115V)/600mA(230V)	3.1 x 3.7 x 2.2	0.6	\$39.99	\$35.99	\$32.39
373181CE	DR-30-12	1	24	12VDC @ 2A	85-264 @ 47-63/120-370	1.1A(115V)/600mA(230V)	3.1 x 3.7 x 2.2	0.6	39.99	35.99	32.39
373190CE	DR-30-15	1	30	15VDC @ 2A	85-264 @ 47-63/120-370	1.1A(115V)/600mA(230V)	3.1 x 3.7 x 2.2	0.6	39.99	35.99	32.39
373202CE	DR-30-24	1	36	24VDC @ 1.5A	85-264 @ 47-63/120-370	1.1A(115V)/600mA(230V)	3.1 x 3.7 x 2.2	0.6	39.99	35.99	32.39
212302CE	DR-4505	2	25	5VDC @ 5A	85-264 @ 47-63/120-370	1.5A(115V)/750mA(230V)	3.0 x 2.6 x 3.6	0.9	45.95	35.19	32.99
192698CE	DR-4512	2	42	12VDC @ 3.5A	85-264 @ 47-63/120-370	1.5A(115V)/750mA(230V)	3.0 x 2.6 x 3.6	0.7	45.95	35.19	32.99
221874CE	DR-4515	2	42	15VDC @ 2.8A	85-264 @ 47-63/120-370	1.5A(115V)/750mA(230V)	3.0 x 2.6 x 3.6	0.9	45.95	35.19	32.99
192680CE	DR-4524	2	48	24VDC @ 2A	85-264 @ 47-63/120-370	1.5A(115V)/750mA(230V)	3.0 x 2.6 x 3.6	0.7	45.95	35.19	32.99
373211CE	DR-60-5	1	32.5	5VDC @ 6.5A	85-264 @ 47-63/124-370	1.8A(115V)/1.0A(230V)	3.1 x 3.7 x 2.2	0.7	50.89	45.80	41.22
373229CE	DR-60-12	1	54	12VDC @ 4.5A	85-264 @ 47-63/124-370	1.8A(115V)/1.0A(230V)	3.1 x 3.7 x 2.2	0.7	50.89	45.80	41.22
373237CE	DR-60-15	1	60	15VDC @ 4A	85-264 @ 47-63/124-370	1.8A(115V)/1.0A(230V)	3.1 x 3.7 x 2.2	0.7	50.89	45.80	41.22
373245CE	DR-60-24	1	60	24VDC @ 2.5A	85-264 @ 47-63/124-370	1.8A(115V)/1.0A(230V)	3.1 x 3.7 x 2.2	0.7	50.89	45.80	41.22
212290CE	DR-7512	3	75	12VDC @ 6.3A	85-264 @ 47-63/120-370	2.0A(115V)/1.2A(230V)	3.9 x 2.1 x 4.9	1.2	73.95	56.09	51.69
212281CE	DR-7524	3	75	24VDC @ 3.2A	85-264 @ 47-63/120-370	2.0A(115V)/1.2A(230V)	3.9 x 2.1 x 4.9	1.2	73.95	56.09	51.69
212273CE	DR-12012	4	120	12VDC @ 10A	88-132/176-264* @ 47-63	2.8A(115V)/1.7A(230V)	2.6 x 3.9 x 4.9	1.4	85.95	64.89	60.49
212265CE	DR-12024	4	120	24VDC @ 5A	88-132/176-264* @ 47-63	2.8A(115V)/1.7A(230V)	2.6 x 3.9 x 4.9	1.4	85.95	64.89	60.49
221903CE	DR-12048	4	120	48VDC @ 2.5A	88-132/176-264* @ 47-63	2.8A(115V)/1.7A(230V)	2.6 x 3.9 x 4.9	1.4	76.95	69.26	62.33
221891CE	DRP-24024†	5	240	24VDC @ 10A	85-264 @ 47-63/120-370	3.5A(115V)/1.8A(230V)	3.9 x 4.9 x 4.9	2.4	156.95	141.26	127.13
221882CE	DRP-24048†	5	240	48VDC @ 5.0A	85-264 @ 47-63/120-370	3.5A(115V)/1.8A(230V)	3.9 x 4.9 x 4.9	2.4	156.95	141.26	127.13
373122CE	DRT-240-24	5	240	24VDC @ 10A	3-phase 340-550 @ 47-63/480-780	0.95A(400V)/0.75A(500V)	3.9 x 4.9 x 4.9	2.9	172.35	155.12	139.60
373114CE	DRT-240-48	5	240	48VDC @ 5A	3-phase 340-550 @ 47-63/480-780	0.95A(400V)/0.75A(500V)	3.9 x 4.9 x 4.9	2.9	172.35	155.12	139.60
252662CE	DRP-48024†	6	480	24VDC @ 20.0A	180-264 @ 47-63/25-370	4.0A(230V)	8.9 x 3.9 x 4.9	4.6	218.95	207.99	197.60
252654CE	DRP-48048†	6	480	48VDC @ 10.0A	180-264 @ 47-63/25-370	4.0A(230V)	8.9 x 3.9 x 4.9	4.6	218.95	207.99	197.60
295937CE	DRP-480S-24†	6	480	24VDC @ 20.0A	90-132/180-264* @ 47-63/254-370	11.0A(115V)/4.0A(230V)	8.9 x 3.9 x 4.9	4.6	225.35	215.03	204.28
301305CE	DRP-480S-48†	6	480	48VDC @ 10.0A	90-132/180-264* @ 47-63/254-370	11.0A(115V)/4.0A(230V)	8.9 x 3.9 x 4.9	4.6	225.35	215.03	204.28
372576CE	DRT-480-24	6	480	24VDC @ 20A	3-phase 340-550 @ 47-63/480-750	1.7A(400V)/1.3A(500V)	8.9 x 3.9 x 4.9	5.5	206.95	186.26	167.63
373106CE	DRT-480-48	6	480	48VDC @ 10A	3-phase 340-550 @ 47-63/480-750	1.7A(400V)/1.3A(500V)	8.9 x 3.9 x 4.9	5.5	206.95	186.26	167.63

*Switch selectable † With Power Factor Correction

DIN Mounting Rail



DIN rail enables easy installation of components such as fuseable terminal blocks & power supplies configured for DIN mounting.

Part No.	Cross Ref. No.	Description	Material	Type	Length	1	10	100
248735CE	2094.0	Prepunched	Zinc bichromate plate steel	TS35 x 7.5	1 meter (39")	\$6.79	\$5.45	\$4.10

DIN-Rail Power Supplies

- Input: 85-264VAC/90-375VDC
- Output: 5-24V @ 2.5-6A

These products ship from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

NEW ON THE WEB

See Our Complete EGS DIN-Rail Power Supplies Offering at www.Jameco.com/Prod/EGSDINRailPS

Open-Frame Linear AC-to-DC Power Supplies

- Input: 100-240VAC
- Built-in OVP
- Output: 5-24V @ 1.2-3A

These products ship from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

NEW ON THE WEB

See Our Complete EGS Open-Frame Linear Power Supplies Offering at www.Jameco.com/Prod/EGSOpenFrameLinear

Linear AC-to-DC Power Supplies

13.8VDC Precision Regulated Power Supplies

- Output voltage: 13.8VDC
- Heavy duty 5'8" 3-prong power cord
- Short-circuit protection
- Output mating terminals: see page 136 for cigarette plugs & page 239 for banana terminal plugs
- Input voltage: 115VAC @ 60Hz
- Illuminated rocker switch
- Fuse protected

135845CE
Banana/
Cigarette



136581CE
Banana
terminal



138667CE
Banana
terminal
(rear)



Part No.	Model No.	Power (W)	Output Current (A)	Output Terminals	Size (L" x W" x H")	Wt. (lbs.)	1	10	25
135845CE	RPS1204	55.2	4	Banana terminals / cigarette plug	6.7 x 5.2 x 3.2	5.5	\$29.95	\$26.95	\$23.95
136581CE	RPS1207†	96.6	7	Banana terminals	8.7 x 5.7 x 3.6	8.5	59.95	53.95	48.95
138667CE	38-381	138.0	10	Banana terminals (rear)	7.0 x 6.6 x 4.3	10.0	69.95	62.95	56.95
138675CE	52-192012	276.0	20	Banana terminals	10.0 x 7.8 x 4.4	15.9	109.95	99.95	89.95

† P/N 136581CE includes overheating protection

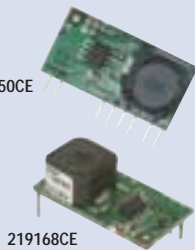
6 to 15-Amp Non-Isolated, Point-of-Load DC-to-DC Converters

6-Amp SIL06C Series

- di/dt: 10A/μs
- 100% burn-in test
- No minimum load
- Remote ON/OFF
- Ultra-wide trim range
- "Power good" signal
- Planar magnetics technology
- Protection: over-current & short-circuit
- Working temperature: 0° to +80°C (derated above 50°C)



219150CE



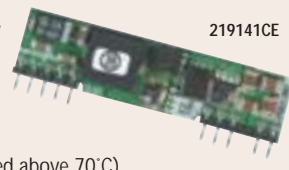
219168CE

10-Amp SIL10E Series

- di/dt: 10A/μs
- 100% burn-in test
- No minimum load
- Remote ON/OFF
- 96% efficiency at 3.3V
- Highest power density: 107W/in³
- Planar magnetics technology
- Protection: thermal & short-circuit
- Working temperature: -40° to +100°C (derated above 70°C)



219141CE



SALE

Jameco Part No.	Product No.	Input Range	Output		Size Inches (LxWxH)	Pins	Line Reg. (±%)	Load Reg. (±%)	Temp. °C	Efficiency (%)	MTBF (hours)	Pricing			
			Voltage@Current	Power								1	10	25	100
219150CE	SIL06C-05SADJ-V	4.5V-5.5V	0.9-3.3V@6A	20W	1.2x0.6x0.07	8	0.2	0.5	0 to +80	89	1,300,000	\$8.39	\$7.98	\$7.58	\$7.20
219168CE	SIL06C-05SADJ-H	4.5V-5.5V	0.9-3.3V@6A	20W	1.2x0.6x0.53	8	0.2	0.5	0 to +80	89	1,300,000	8.39	7.98	7.58	7.20
219141CE	SIL10E-05S1V8-V	3.0V-5.5V	1.8V@10A	18W	2.0x0.5x0.31	11	1.0	1.0	-40 to +100	92	7,042,000	16.29	15.47	14.69	13.96
219133CE	SIL10E-05S2V5-V	3.0V-5.5V	2.5V@10A	25W	2.0x0.5x0.31	11	1.0	1.0	-40 to +100	94	7,042,000	16.29	15.47	14.69	13.96
219117CE	SIL10E-05W3V3-V	4.5V-5.5V	0.8-3.6V@10A	33W	2.0x0.5x0.31	11	1.0	1.0	-40 to +100	95	7,042,000	16.29	15.47	14.69	13.96
219125CE	SIL10E-05S3V3-V	4.5V-5.5V	3.3V@10A	33W	2.0x0.5x0.31	11	1.0	1.0	-40 to +100	95	7,042,000	16.29	15.47	14.69	13.96

Blue Part No. = Limited Quantity Available

15-Amp SIL15C Series

- di/dt: 10A/μs
- 100% burn-in test
- No minimum load
- Remote ON/OFF
- Ultra-wide trim range
- Protection: over-current & short-circuit
- Two-year warranty
- Working temperature: 0° to +80°C (derated above 50°C)



Jameco Part No.	Product No.	Input Range	Output		Size Inches (LxWxH)	Pins	Line Reg. (±%)	Load Reg. (±%)	Temp. °C	Efficiency (%)	Pricing			
			Voltage @ Current	Power							1	10	25	100
218886CE	SIL15C-05SADJ-V	4.5V-5.5V	0.9V-3.3V@15A	50W	1.20x1.10x0.40	13	0.2	0.5	0 to +80	89	\$11.45	\$10.89	\$10.35	\$9.83
218878CE	SIL15C-12SADJ-V	10.2V-13.8V	0.9V-5V@15A	75W	1.20x1.10x0.40	13	0.2	0.5	0 to +80	91	16.65	15.19	13.74	12.29

Blue Part No. = Limited Quantity Available

0.5 to 5-Watt Isolated DC-to-DC Converters

0.5 & 1-Watt Regulated & Unregulated Encapsulated

- 1000VDC isolation
- Input filter: capacitor type
- Protection: short-circuit
- 100% burn-in test
- Working temp.: -15 to +60°C
- One-year warranty
- No external components needed



3 & 5-Watt Regulated Encapsulated

- 1000VDC isolation
- Input filter: Pi network
- 2:1 wide input range
- 100% burn-in test
- Shielded metal case
- One-year warranty
- Working temperature: -15 to +60°C
- No external components needed
- Protection: short-circuit & overload



SALE

Jameco Part No.	Product No.	Input Range	Output		Size Inches (LxWxH)	Pins	Line Reg. (±%)	Load Reg. (±%)	Ripple & Noise (mV p-p)	Pricing			
			Voltage@Current	Power						1	10	25	100
213225CE	SRS-0505	4.5-5.5V	+5V@100mA	0.5W	0.88x0.39x0.33	8	1.0	1.0	100	\$5.39	\$4.91	\$4.46	\$4.08
216830CE	SPR01L-12	4.5-5.5V	+12V@84mA	1W	0.77x0.28x0.4	4	1.0	1.0	100	8.95	8.06	7.25	6.52
213268CE	SCW03A-05	9-18V	+5V@600mA	3W	1.25x0.8x0.48	10	1.0	0.5	100	15.49	13.95	12.59	11.29
155918CE	DCW03A-05	9-18V	+5V@300mA; -5V@300mA	3W	1.25x0.8x0.48	10	1.0	0.5	100	20.95	18.89	16.99	15.29
161701CE	DCW03A-12	9-18V	+12V@125mA; -12V@125mA	3W	1.25x0.8x0.48	10	1.0	0.5	100	20.95	18.89	16.99	15.29
220388CE	SLW05L-12	4.5-9V	+12V@417mA	5W	2x1x0.44	5	0.2	0.5	100	24.95	22.49	20.25	18.25
220353CE	SLW05A-033	9-18V	+3.3V@1500mA	5W	2x1x0.44	5	0.2	0.5	100	19.95	17.95	16.16	14.54
216928CE	SLW05A-05	9-18V	+5V@1000mA	5W	2x1x0.44	5	1.0	0.2	100	24.95	22.49	20.25	18.25
216881CE	SLW05A-15	9-18V	+15V@333mA	5W	2x1x0.44	5	1.0	0.2	100	24.95	22.49	20.25	18.25
216936CE	SLW05B-05	18-36V	+5V@1000mA	5W	2x1x0.44	5	1.0	0.2	100	24.95	22.49	20.25	18.25
216910CE	SLW05B-12	18-36V	+12V@417mA	5W	2x1x0.44	5	1.0	0.2	100	21.95	19.76	17.78	16.00
216864CE	DLW05B-12	18-36V	+12V@208mA; -12V@208mA	5W	2x1x0.44	5	0.2	0.2	100	19.19	17.28	15.55	13.99
213233CE	SLW05C-05	36-72V	+5V@1000mA	5W	2x1x0.44	5	1.0	0.2	100	17.25	15.50	13.95	12.56

Blue Part No. = Limited Quantity Available

For Complete Specifications visit www.Jameco.com.

Free Technical Support

Our knowledgeable Tech Support department is ready to answer your questions. Just call us!
1-800-831-4242

10 to 30-Watt Isolated DC-to-DC Converters

Color Code Legend
New Sale Lower\$ QtySave

10-Watt Encapsulated

- Isolation voltage: 1000VDC
- 2:1 wide input range
- Working temperature: -15 to +60°C
- Input filter: Pi-network
- Shielded metal case
- Industry standard package
- 100% burn-in test
- Protection: short-circuit & overload
- Free-air convection cooling
- One-year warranty



Quantity SAVE

Jameco Part No.	Product No.	Input Range	Output		Size Inches (LxWxH)	Pins	Line Reg. (±%)	Load Reg. (±%)	Ripple & Noise (mV p-p)	Pricing			
			Voltage@Current	Power						1	10	25	100
216961CE	SKE10A-05	9-18V	+5V@2000mA	10W	2x1x0.44	5	0.3	1.0	50	\$33.95	\$30.55	\$26.95	\$24.55
216979CE	SKE10A-15	9-18V	+15V@666mA	10W	2x1x0.44	5	0.3	1.0	60	33.95	30.56	24.44	18.33
220337CE	SKE10B-033	18-36V	+3.3V@2400mA	8W	2x1x0.44	5	0.3	0.5	50	33.95	30.56	24.44	18.33
216952CE	SKE10B-05	18-36V	+5V@2000mA	10W	2x1x0.44	5	0.3	0.5	50	33.95	30.55	26.95	24.55
217023CE	SKE10B-12	18-36V	+12V@840mA	10W	2x1x0.44	5	0.3	0.5	60	29.95	26.96	21.56	16.17
216944CE	SKE10C-05	36-72V	+5V@2000mA	10W	2x1x0.44	5	0.3	1.0	50	33.95	30.56	24.44	18.33
217031CE	DKE10A-05	9-18V	+5V@1000mA; -5V@1000mA	10W	2x1x0.44	5	0.3	0.5	50	34.95	31.46	25.16	18.87
217091CE	DKE10A-12	9-18V	+12V@420mA; -12V@420mA	10W	2x1x0.44	5	0.3	0.5	60	34.95	31.45	27.95	25.45
217111CE	DKE10A-15	9-18V	+15V@333mA; -15V@333mA	10W	2x1x0.44	5	0.3	0.5	60	34.95	31.45	27.95	25.45
217074CE	DKE10B-15	18-36V	+15V@333mA; -15V@333mA	10W	2x1x0.44	5	0.3	0.5	60	34.95	31.45	27.95	25.45
217103CE	DKE10C-12	36-72V	+12V@420mA; -12V@420mA	10W	2x1x0.44	5	0.3	0.5	60	21.99	20.04	18.22	16.56

15-Watt Encapsulated

- Isolation voltage: 1000VDC
- Free-air convection cooling
- Input filter: Pi network
- Shielded metal case
- 2:1 wide input range
- Working temperature: -15 to +60°C
- 100% burn-in test
- Protection: short-circuit & overload
- One-year warranty



Jameco Part No.	Product No.	Input Range	Output		Size Inches (LxWxH)	Pins	Line Reg. (±%)	Load Reg. (±%)	Ripple & Noise (mV p-p)	Pricing			
			Voltage@Current	Power						1	10	25	100
155715CE	SKE15A-05	9-18V	+5V@3000mA	15W	2x2x0.43	5	0.3	0.5	50	\$34.95	\$31.49	\$28.15	\$25.35
155707CE	SKE15A-12	9-18V	+12V@1250mA	15W	2x2x0.43	5	0.3	0.5	60	34.95	31.19	28.15	25.35
155694CE	SKE15A-24	9-18V	+24V@625mA	15W	2x2x0.43	5	0.3	0.5	80	34.95	31.49	28.15	25.35
213276CE	SKE15B-05	18-36V	+5V@3000mA	15W	2x2x0.43	5	0.3	0.5	50	34.95	31.49	28.15	25.35
213284CE	SKE15B-12	18-36V	+12V@1250mA	15W	2x2x0.43	5	0.3	0.5	60	34.95	31.49	28.15	25.35
161728CE	DKE15A-12	9-18V	+12V@625mA; -12V@625mA	15W	2x2x0.43	5	0.3	0.5	60	35.95	32.36	25.88	19.41
213292CE	DKE15A-24	9-18V	+24V@313mA; -24V@313mA	15W	2x2x0.43	5	0.3	0.5	80	32.95	29.69	26.90	24.05

20-Watt Encapsulated

- Isolation voltage: 1000VDC
- Output trim
- Free-air convection cooling
- Working temp.: -40 to +71°C
- Industry standard package
- 100% burn-in test
- Shielded metal case
- Input filter: Pi network
- Protection: short-circuit & overload
- One-year warranty



Jameco Part No.	Product No.	Input Range	Output		Size Inches (LxWxH)	Pins	Line Reg. (±%)	Load Reg. (±%)	Ripple & Noise (mV p-p)	Pricing			
			Voltage@Current	Power						1	10	25	100
217630CE	DKB20A-05	9-18V	+5V@2000mA; -5V@2000mA	20W	1.2x2x0.82	8	0.2	0.2	100	\$44.95	\$40.49	\$36.45	\$32.79
217613CE	DKB20C-15	36-72V	+15V@667mA; -15V@667mA	20W	1.2x2x0.82	8	0.2	0.2	100	25.89	24.60	23.37	22.20
217648CE	TKB20C-B	36-72V	+5V@2500mA; ±12V@310mA	20W	1.2x2x0.82	8	0.2	0.2	100	37.79	33.99	31.25	29.89

Blue Part No. = Limited Quantity Available

30-Watt Encapsulated

- Isolation voltage: 1000VDC
- Protection: short-circuit & overload
- Shielded metal case
- Input filter: Pi-network
- 2:1 wide input range
- Remote ON/OFF
- Switching frequency: 100kHz
- 100% burn-in test
- Output trim
- Working temperature: -40 to +71°C
- One-year warranty



Jameco Part No.	Product No.	Input Range	Output		Size Inches (LxWxH)	Pins	Line Reg. (±%)	Load Reg. (±%)	Ripple & Noise (mV p-p)	Pricing			
			Voltage@Current	Power						1	10	25	100
218544CE	DKA30B-12	18-36V	±12V@1250mA	30W	2x2x0.82	8	0.2	0.2	100	\$32.99	\$30.01	\$27.28	\$24.80

Blue Part No. = Limited Quantity Available

30-Watt Encapsulated

- Isolation voltage: 1000VDC
- 2:1 wide input range
- Working temperature: -25 to +85°C
- Input filter: Pi-network
- Shielded metal case
- 100% burn-in test
- Output trim
- Remote ON/OFF
- Protection: short-circuit, overload & over-voltage
- One-year warranty



Jameco Part No.	Product No.	Input Range	Output		Size Inches (LxWxH)	Pins	Line Reg. (±%)	Load Reg. (±%)	Ripple & Noise (mV p-p)	Pricing			
			Voltage@Current	Power						1	10	25	100
217234CE	SDM30-12S12	9-18V	+12V@2100mA	25.2W	2x1.8x0.62	8	1.0	1.0	100	\$34.95	\$31.77	\$28.88	\$26.26
217242CE	SDM30-24S12	18-36V	+12V@2500mA	30W	2x1.8x0.62	8	1.0	1.0	100	45.95	41.35	37.25	33.55

10-Watt Open Frame ARTESYN TECHNOLOGIES

CXA10 Series: Single Output

- Isolation voltage: 1500VDC
- Industry standard footprint
- Remote ON/OFF
- 4:1 input voltage range
- Protection: short-circuit & overload
- Working temp.: -40° to +100°C (see www.Jameco.com)
- 100% burn-in test
- Two-year warranty



15-Watt Open Frame ARTESYN TECHNOLOGIES

CXE15 Series: Single Output

- Isolation voltage: 1500VDC
- Industry standard footprint
- Remote ON/OFF
- No minimum load
- Protection: over-voltage & over-current
- Output trim
- 100% burn-in test
- Two-year warranty



20-Watt Open Frame ARTESYN TECHNOLOGIES

CXA20 Series: Single Output

- Isolation voltage: 1500VDC
- Output trim
- Industry standard footprint
- 100% burn-in test
- 4:1 input voltage range
- Protection: over-voltage, over-temperature & short-circuit
- Working temperature: -40° to +60°C (see www.Jameco.com)
- Remote ON/OFF
- No minimum load
- Two-year warranty



60-Watt Open Frame ARTESYN TECHNOLOGIES

EXQ60 Series: Dual Output

- Isolation voltage: 1500VDC
- Output trim
- Industry standard footprint
- Remote ON/OFF
- No minimum load
- Protection: short-circuit, over-current & over-voltage
- Working temperature: -40° to +100°C (see www.Jameco.com)
- 100% burn-in test
- Two-year warranty

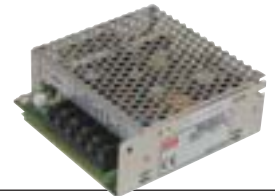


Jameco Part No.	Product No.	Input Range	Output		Size Inches (LxWxH)	Pins	Line Reg. (±%)	Load Reg. (±%)	Ripple & Noise (mV p-p)	Pricing			
			Voltage@Current	Power						1	10	25	100
219037CE	CXA10-48S3V3	18-75V	+3.3V@2400mA	7.9W	2.0x1.0x0.54	6	0.1	0.2	30	\$25.55	\$24.29	\$23.07	\$21.92
219045CE	CXA10-48S05	18-75V	+5.0V@2000mA	10W	2.0x1.0x0.54	6	0.1	0.2	30	25.55	24.29	23.07	21.92
219070CE	CXE15-48S1V8	33-75V	+1.8V@6000mA	10.8W	2.0x1.0x0.35	6	0.3	2.0	40	24.69	23.48	22.31	21.19
219088CE	CXE15-48S2V5	33-75V	+2.5V@6000mA	15W	2.0x1.0x0.35	6	0.3	1.5	40	24.69	23.48	22.31	21.19
219053CE	CXE15-48S3V3	33-75V	+3.3V@4500mA	15W	2.0x1.0x0.35	6	0.1	0.5	70	24.69	23.48	22.31	21.19
219061CE	CXE15-48S05V	33-75V	+5V@3000mA	15W	2.0x1.0x0.35	6	0.1	0.5	70	24.69	23.48	22.31	21.19
219109CE	CXA20-48S3V3	18-75V	+3.3V@6000mA	19.8W	2.0x1.6x0.41	8	0.1	0.2	75	35.49	33.73	32.04	30.44
219096CE	CXA20-48S05	18-75V	+5V@4000mA	20.0W	2.0x1.6x0.41	8	0.1	0.1	75	35.49	33.73	32.04	30.44
218894CE	EXQ60-48D3V3-2V5-R	33-75V	+2.5V@16A; +3.3V@12A	40W	2.3x1.5x0.50	7	—	—	60	76.99	73.23	69.57	66.09
218907CE	EXQ60-48D05-3V3-R	33-75V	+3.3V@15A; +5V@12A	60W	2.3x1.5x0.50	7	—	—	60	76.99	73.23	69.57	66.09

Blue Part No. = Limited Quantity Available

25-Watt Enclosed

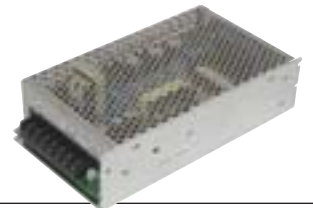
- Isolation voltage: 500VDC
- 2:1 wide input range
- Working temperature: -10° to +60°C
- Protection: short-circuit, overload and over-voltage
- Input filter: Pi-network
- Shielded metal case
- 100% burn-in test
- Free-air convection cooling
- One-year warranty



Jameco Part No.	Product No.	Input Range	Output		Size Inches (LxWxH)	Pins	Line Reg. (±%)	Load Reg. (±%)	Ripple & Noise (mV p-p)	Pricing			
			Voltage@Current	Power						1	10	25	100
175661CE	SD-25A-5	9-18V	+5V@5000mA	25W	see www.Jameco.com	5	0.5	0.5	100	\$40.95	\$30.99	\$28.99	\$24.99
175804CE	SD-25A-12	9-18V	+12V@2100mA	25.2W	see www.Jameco.com	5	0.3	0.3	120	37.95	34.16	27.32	20.49
175812CE	SD-25A-24	9-18V	+24V@1100mA	26.4W	see www.Jameco.com	5	0.2	0.2	150	40.95	30.99	28.99	24.99

50, 100 & 150-Watt Enclosed

- Isolation voltage: 1500VDC
- One-year warranty
- 2:1 wide input range
- Protection: short-circuit, overload and over-voltage
- Mounting hardware: use P/Ns 222156CE & 222172CE; see www.Jameco.com for specifications
- Input filter: Pi-network
- Shielded metal case
- Working temperature: -10° to +60°C
- 100% burn-in test
- Free-air convection cooling



Jameco Part No.	Product No.	Input Range	Output		Size Inches (LxWxH)	Pins	Line Reg. (±%)	Load Reg. (±%)	Ripple & Noise (mV p-p)	Pricing			
			Voltage@Current	Power						1	10	25	100
212548CE	SD-50A-5	9-18V	+5V@10A	50W	see www.Jameco.com	5	0.5	0.5	100	\$35.79	\$32.53	\$29.58	\$26.89
212530CE	SD-50B-12	19-36V	+12V@4.2A	50.4W	see www.Jameco.com	5	0.3	0.3	120	51.95	46.76	37.40	28.05
212513CE	SD-50B-24	19-36V	+24V@2.1A	50.4W	see www.Jameco.com	5	0.2	0.2	150	35.79	32.21	25.77	24.15
212505CE	SD-50C-12	36-72V	+12V@4.2A	50.4W	see www.Jameco.com	5	0.3	0.3	120	51.95	39.99	36.99	32.99
216565CE	SD-100B-12	19-36V	+12V@8.5A	102W	see www.Jameco.com	7	0.3	0.3	120	72.95	65.66	52.52	39.39
212468CE	SD-100C-12	36-72V	+12V@8.5A	102W	see www.Jameco.com	7	0.3	0.3	120	63.95	53.99	50.99	44.99
217269CE	SD-150B-12	19-36V	+12V@12.5A	150W	see www.Jameco.com	7	0.5	0.5	120	82.95	74.66	59.72	44.79

AC-to-DC Regulated Switching Table-Top Power Supplies

Color Code Legend
New Sale Lower\$ QtySave

We will change any power plug (pg 136) on any table-top power supply (100 pc. minimum).

See page 203 for International Power Cords



249050CE



211300CE



249041CE



220441CE



DIN M

Polarity 1 \oplus \ominus \ominus (center negative)



Female



Male

Polarity 2 \ominus \oplus \oplus (center positive)

Power	Part Number	Brand ▲	Product Number ▲	Output		Input VAC@Hz	Output Connector ID x OD/Polarity F = female; M = male	Pwr. Ind.	Color	Size (L" x W" x H")	Cords* (DC/AC)	Wt. (lbs.)	Agency Approvals	Pricing			
				Pwr (W)	Volts (VDC)/ Current (A)									1	10	50	100
2-Wire AC Input – Regulated Switching																	
12-24 Watt	249050CE	Phihong	PSA15W-050	12.5	+5/2.5	100-240@50-60	2.5mm x 5.5mm F 2	No	Black	4.3 x 2.6 x 1.0	6' 3	0.4	UL/CSA/TUV/CE	\$19.49	\$17.75	\$16.39	\$14.55
	379612CE	Mean Well	ES25B05-P1JU	20	+5/4.0	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	3.1 x 2.1 x 1.3	6' 6	0.5	UL/CSA/TUV/CE	20.69	18.53	16.22	15.45
	377924CE	Mean Well	P30B-1P2JU	20	+5/4.0	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	4.3 x 2.6 x 1.4	6' 6	0.7	UL/CSA/TUV/CE	23.69	21.17	19.14	18.18
	380621CE	Mean Well	ES25B05-P1MU	20	+5/4.0	90-264@47-63	2.5mm x 5.5mm F 2	Yes	Black	3.1 x 2.1 x 1.3	6' 6	0.5	UL/CSA/TUV/CE	20.69	18.53	16.22	15.45
	379760CE	Mean Well	P30B-1P2MU	20	+5/4.0	90-264@47-63	2.5mm x 5.5mm F 2	Yes	Black	4.3 x 2.6 x 1.4	6' 6	0.7	UL/CSA/TUV/CE	23.69	21.17	19.14	18.18
	211300CE	Artesyn	SSL20-7605	20	+5/4.0	100-240@50-60	2.5mm x 5.5mm F 2	No	Black	4.2 x 2.3 x 1.0	6' 3	1.5	UL/CSA/VDE/CE	24.95	22.46	17.96	13.11
	379920CE	Mean Well	ES25B07-P1JU	22	+7.5/2.93	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	3.1 x 2.1 x 1.3	6' 6	0.5	UL/CSA/TUV/CE	20.69	18.53	16.22	15.45
	380672CE	Mean Well	ES25B07-P1MU	22	+7.5/2.93	90-264@47-63	2.5mm x 5.5mm F 2	Yes	Black	3.1 x 2.1 x 1.3	6' 6	0.5	UL/CSA/TUV/CE	20.69	18.53	16.22	15.45
	195805CE	Horizon	DCR920F12	18	+9/2.0	100-240@50-60	2.1mm x 5.5mm F 2	Yes	Black	4.2 x 2.6 x 1.4	6' 6	0.9	UL/CUL/TUV/CE	26.95	24.25	21.85	19.65
	195768CE	Horizon	DCR920F52	18	+9/2.0	100-240@50-60	2.5mm x 5.5mm F 2	Yes	Black	4.3 x 2.6 x 1.4	6' 6	0.9	UL/CUL/TUV/CE	22.95	20.66	16.52	15.55
	249041CE	Phihong	PSA15W-120	15	+12/1.25	100-240@50-60	2.1mm x 5.5mm F 2	No	Black	4.3 x 2.6 x 1.0	6' 3	0.3	UL/CSA/TUV/CE	19.49	17.75	16.39	14.55
	242958CE	Mean Well	G15B-3P2JR15U	15	+12/1.3	100-240@50-60	2.1mm x 5.5mm F 2	No	Black	3.9 x 2.3 x 1.6	6' 6	0.5	UL/CSA/TUV/CE	19.49	17.69	16.39	14.51
	391769CE	Mean Well	ES18B12-P1JU	18	+12/1.5	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	3.1 x 2.1 x 1.3	6' 6	0.5	UL/CSA/TUV/CE	20.65	18.95	16.41	16.29
	391777CE	Mean Well	ES18B24-P1JU	18	+24/0.75	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	3.1 x 2.1 x 1.3	6' 6	0.5	UL/CSA/TUV/CE	20.65	18.95	16.41	16.29
196138CE	DVE	DSA-0283A	23	+5/1, +12/1.49 -5/1.43	100-240@47-63	5-pin DIN M	No	Black	4.9 x 2.7 x 1.5	6' 3	0.8	UL/CSA/TUV	16.95	15.25	12.19	9.15	
25-29 Watt	379938CE	Mean Well	ES25B09-P1JU	25	+9/2.78	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	3.1 x 2.1 x 1.3	6' 6	0.5	UL/CSA/TUV/CE	20.69	18.53	16.22	15.45
	380681CE	Mean Well	ES25B09-P1MU	25	+9/2.78	90-264@47-63	2.5mm x 5.5mm F 2	Yes	Black	3.1 x 2.1 x 1.3	6' 6	0.5	UL/CSA/TUV/CE	20.69	18.53	16.22	15.45
	377932CE	Mean Well	P30B-2P2JU	26	+9/2.89	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	4.3 x 2.6 x 1.4	6' 6	0.7	UL/CSA/TUV/CE	23.69	21.17	19.14	18.18
	379786CE	Mean Well	P30B-2P2MU	26	+9/2.89	90-264@47-63	2.5mm x 5.5mm F 2	Yes	Black	4.3 x 2.6 x 1.4	6' 6	0.7	UL/CSA/TUV/CE	23.69	21.17	19.14	18.18
	379946CE	Mean Well	ES25B12-P1JU	25	+12/2.08	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	3.1 x 2.1 x 1.3	6' 6	0.5	UL/CSA/TUV/CE	20.69	18.53	16.22	15.45
	380701CE	Mean Well	ES25B12-P1MU	25	+12/2.08	90-264@47-63	2.5mm x 5.5mm F 2	Yes	Black	3.1 x 2.1 x 1.3	6' 6	0.5	UL/CSA/TUV/CE	20.69	18.53	16.22	15.45
	377941CE	Mean Well	P30B-3P2JU	27	+12/2.25	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	4.3 x 2.6 x 1.4	6' 6	0.7	UL/CSA/TUV/CE	23.69	21.17	19.14	18.18
	379794CE	Mean Well	P30B-3P2MU	27	+12/2.25	90-264@47-63	2.5mm x 5.5mm F 2	Yes	Black	4.3 x 2.6 x 1.4	6' 6	0.7	UL/CSA/TUV/CE	23.69	21.17	19.14	18.18
	379954CE	Mean Well	ES25B15-P1JU	25	+15/1.67	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	3.1 x 2.1 x 1.3	6' 6	0.5	UL/CSA/TUV/CE	20.69	18.53	16.22	15.45
	380710CE	Mean Well	ES25B15-P1MU	25	+15/1.67	90-264@47-63	2.5mm x 5.5mm F 2	Yes	Black	3.1 x 2.1 x 1.3	6' 6	0.5	UL/CSA/TUV/CE	20.69	18.53	16.22	15.45
	377959CE	Mean Well	P30B-4P2JU	27	+15/1.8	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	4.3 x 2.6 x 1.4	6' 6	0.7	UL/CSA/TUV/CE	23.69	21.17	19.14	18.18
	379655CE	Mean Well	P30B-4P2MU	27	+15/1.8	90-264@47-63	2.5mm x 5.5mm F 2	Yes	Black	4.3 x 2.6 x 1.4	6' 6	0.7	UL/CSA/TUV/CE	23.69	21.17	19.14	18.18
	379962CE	Mean Well	ES25B18-P1JU	25	+18/1.39	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	3.1 x 2.1 x 1.3	6' 6	0.5	UL/CSA/TUV/CE	20.69	18.53	16.22	15.45
	380728CE	Mean Well	ES25B18-P1MU	25	+18/1.39	90-264@47-63	2.5mm x 5.5mm F 2	Yes	Black	3.1 x 2.1 x 1.3	6' 6	0.5	UL/CSA/TUV/CE	20.69	18.53	16.22	15.45
	379971CE	Mean Well	ES25B24-P1JU	25	+24/1.04	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	3.1 x 2.1 x 1.3	6' 6	0.5	UL/CSA/TUV/CE	20.69	18.53	16.22	15.45
	380761CE	Mean Well	ES25B24-P1MU	25	+24/1.04	90-264@47-63	2.5mm x 5.5mm F 2	Yes	Black	3.1 x 2.1 x 1.3	6' 6	0.5	UL/CSA/TUV/CE	20.69	18.53	16.22	15.45
	221612CE	Mean Well	P30B-6P2JU	27	+24/1.1	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	4.3 x 2.6 x 1.4	6' 6	0.8	UL/CUL/TUV/CE	25.95	23.35	20.99	18.99
	379989CE	Mean Well	ES25B28-P1JU	25	+28/0.89	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	3.1 x 2.1 x 1.3	6' 6	0.5	UL/CSA/TUV/CE	20.69	18.53	16.22	15.45
	380779CE	Mean Well	ES25B28-P1MU	25	+28/0.89	90-264@47-63	2.5mm x 5.5mm F 2	Yes	Black	3.1 x 2.1 x 1.3	6' 6	0.5	UL/CSA/TUV/CE	20.69	18.53	16.22	15.45
205911CE	Delta	ADP-25HB	25	+30/0.83	100-125@50-60	2.1mm x 5.5mm F 2	No	Black	3.5 x 2.4 x 1.2	6' 7	1.1	UL/CUL	17.49	15.75	12.59	9.45	
379997CE	Mean Well	ES25B48-P1JU	25	+48/0.52	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	3.1 x 2.1 x 1.3	6' 6	0.5	UL/CSA/TUV/CE	20.69	18.53	16.22	15.45	
380808CE	Mean Well	ES25B48-P1MU	25	+48/0.52	90-264@47-63	2.5mm x 5.5mm F 2	Yes	Black	3.1 x 2.1 x 1.3	6' 6	0.5	UL/CSA/TUV/CE	20.69	18.53	16.22	15.45	
30-65W	220441CE	Horizon	SL120300RT	36	+12/3.0	100-240@50-60	2.5mm x 5.5mm F 2†	Yes	Black	4.3 x 2.0 x 1.2	6' 3	0.6	UL/CUL/TUV/CE	29.95	26.96	21.56	16.17
	230498CE	Phihong	PSA60W-120	50	+12/4.2	90-264@47-63	2.1mm x 5.5mm F 2	No	Black	4.0 x 2.5 x 1.3	6' 3	0.5	UL/CUL/TUV/CE	36.49	32.85	29.55	28.08
	230501CE	Phihong	PSA60W-180	60	+18/3.3	90-264@47-63	2.1mm x 5.5mm F 2	No	Black	4.0 x 2.5 x 1.3	6' 3	0.5	UL/CUL/TUV/CE	36.49	32.85	29.55	28.08
	229841CE	Phihong	PSA60W-240	60	+24/2.5	90-264@47-63	2.1mm x 5.5mm F 2	No	Black	4.0 x 2.5 x 1.3	6' 3	0.5	UL/CUL/TUV/CE	36.49	32.85	29.55	17.45

* See accessory table-top power cord chart on page 194 when AC cord needed; refer to 1, 2 or 3 in "Cord (DC/AC)" column above for correct power cord

† Right angle

▲ Brand and product number may vary except for ReliaPro, Mean Well, Philhong and GlobTek

3-Wire Table-Top Power Supplies on next page



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See page 203 for International Power Cords



308700CE



159353CE



243011CE



206455CE

Quantity SAVE



DIN M

Polarity 1 \oplus \ominus \ominus (center negative)



Female



Male

Polarity 2 \ominus \oplus \oplus (center positive)

Power	Part Number	Brand ▲	Product Number ▲	Output		Input VAC@Hz	Output Connector ID x OD/Polarity F = female; M = male	Pwr. Ind.	Color	Size (L" x W" x H")	Cords* (DC/AC)	Wt. (lbs.)	Agency Approvals	Pricing			
				Pwr (W)	Volts (VDC)/ Current (A)									1	10	50	100
3-Wire AC Input – Regulated Switching																	
5-20 Watt	221567CE	Mean Well	P40A-0P2JU	15	+3.3/4.5	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	4.3 x 2.6 x 1.4	6'/6"	0.8	UL/CUL/TUV/CE	\$22.99	\$20.69	\$18.83	\$16.97
	308700CE	Be-Well	ZD0001F	5	+5/1.0	100-240@50-60	2.1mm x 5.5mm F 2†	No	Black	4.2 x 2.0 x 1.6	6'/2"	0.4	UL/CUL/TUV/CE	16.95	15.26	12.20	9.15
	309876CE	Go Forward	G112-US0520	10	+5/2.0	100-240@50-60	2.1mm x 5.5mm F 2	No	Black	2.6 x 1.9 x 1.3	6'/2"	0.4	UL/CUL/TUV/CE	17.75	15.98	12.78	9.59
	311802CE	Li Shin	LSE0103B0510	10	+5/2.0	100-240@50-60	2.1mm x 5.5mm F 2	Yes	Black	3.7 x 2.0 x 1.2	6'/2"	0.4	UL/CUL/TUV/CE	13.89	11.29	9.95	9.65
	196218CE	GlobTek	GT210891005T3	10	+5/2.0	120-240@50-60	2.1mm x 5.5mm F 2	No	Black	3.4 x 1.9 x 1.3	6'/2"	0.4	UL/CUL/TUV/CE	19.95	17.95	16.15	14.55
	355717CE	CUI Slack	DSA-0151D-05	12	+5/2.4	100-240@47-63	2.1mm x 5.5mm F 2	No	Black	3.9 x 2.0 x 1.4	6'/1"	0.5	UL/CUL/TUV/CE	17.29	16.18	14.40	14.32
	377844CE	Mean Well	ES18A05-P1JU	15	+5/3.0	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	3.7 x 2.1 x 1.4	6'/6"	0.6	UL/CSA/TUV/CE	20.65	18.95	16.41	16.29
	379719CE	Mean Well	ES18A05-P1MU	15	+5/3.0	90-264@47-63	2.5mm x 5.5mm F 2	Yes	Black	3.7 x 2.1 x 1.4	6'/6"	0.6	UL/CSA/TUV/CE	20.65	18.95	16.41	16.29
	355506CE	APS	AD-740U-1050/LP	15	+5/3.0	100-240@50-60	2.5mm x 5.5mm F 2	Yes	Black	4.2 x 2.6 x 1.6	6'/1"	0.8	UL/CUL/TUV/CE	17.29	16.40	13.24	12.57
	379591CE	Mean Well	ES25A05-P1JU	20	+5/4.0	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	3.7 x 2.1 x 1.4	6'/6"	0.6	UL/CSA/TUV/CE	20.69	18.53	16.22	15.45
	380470CE	Mean Well	ES25A05-P1MU	20	+5/4.0	90-264@47-63	2.5mm x 5.5mm F 2	Yes	Black	3.7 x 2.1 x 1.4	6'/6"	0.6	UL/CSA/TUV/CE	20.69	18.53	16.22	15.45
	213583CE	Mean Well	P30A-1P2JU	20	+5/4.0	100-240@50-60	2.1mm x 5.5mm F 2	Yes	Black	4.3 x 2.6 x 1.4	6'/6"	0.7	UL/CUL/TUV/CE	23.69	21.32	17.06	16.04
	377861CE	Mean Well	ES18A09-P1JU	18	+9/2.0	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	3.7 x 2.1 x 1.4	6'/6"	0.6	UL/CSA/TUV/CE	20.65	18.95	16.41	16.29
	379735CE	Mean Well	ES18A09-P1MU	18	+9/2.0	90-264@47-63	2.5mm x 5.5mm F 2	Yes	Black	3.7 x 2.1 x 1.4	6'/6"	0.6	UL/CSA/TUV/CE	20.65	18.95	16.41	16.29
	303538CE	I.T.E.	UP01411120	12	+12/1.0	100-250@50-60	2.5mm x 5.5mm F 2	No	Black	4.1 x 2.5 x 1.3	4'/2"	0.4	UL/CSA/TUV/CE	16.75	13.37	11.70	11.14
	228988CE	Phihong	PSA18U-120	18	+12/1.5	90-264@47-63	2.1mm x 5.5mm F 2	No	Black	3.9 x 2.2 x 1.2	6'/2"	0.5	UL/CUL/TUV/CE	22.95	20.65	18.59	16.75
	376622CE	Mean Well	ES18A12-P1JU	18	+12/1.5	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	3.7 x 2.1 x 1.4	6'/6"	0.6	UL/CSA/TUV/CE	20.65	18.95	16.41	16.29
	379701CE	Mean Well	ES18A12-P1MU	18	+12/1.5	90-264@47-63	2.5mm x 5.5mm F 2	Yes	Black	3.7 x 2.1 x 1.4	6'/6"	0.6	UL/CSA/TUV/CE	20.65	18.95	16.41	16.29
	216531CE	Mean Well	KWM12F-P2MU✳	18	+12/1.5	100-240@47-63	2.5mm x 5.5mm F 2	No	Black	4.0 x 1.9 x 1.5	6'/6"	0.4	UL/CUL/TUV/CE	26.95	24.26	19.40	14.55
	320231CE	3-Com	10030973	18	+12/1.5	100-240@47-63	2.5mm x 5.5mm F 2	No	Black	4.1 x 2.0 x 1.4	6'/2"	0.4	UL/CUL/TUV/CE	15.19	13.67	10.94	8.20
	298062CE	I.T.E.	UP01831120	18	+12/1.5	100-240@50-60	2.5mm x 5.5mm F 2	No	Black	3.7 x 2.2 x 1.3	7'/2"	0.4	UL/CUL/CE	15.45	13.90	11.12	8.34
	377879CE	Mean Well	ES18A15-P1JU	18	+15/1.2	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	3.7 x 2.1 x 1.4	6'/6"	0.6	UL/CSA/TUV/CE	20.65	18.95	16.41	16.29
	379743CE	Mean Well	ES18A15-P1MU	18	+15/1.2	90-264@47-63	2.5mm x 5.5mm F 2	Yes	Black	3.7 x 2.1 x 1.4	6'/6"	0.6	UL/CSA/TUV/CE	20.65	18.95	16.41	16.29
	394231CE	Mean Well	ES24A15-P1JU	18	+18/1.0	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	3.7 x 2.1 x 1.4	6'/6"	0.6	UL/CSA/TUV/CE	20.65	18.95	16.41	16.29
	303546CE	I.T.E.	UP01811180	18	+18/1.5	100-250@50-60	2.1mm x 5.5mm F 2	No	Black	4.1 x 2.5 x 1.3	4'/2"	0.4	UL/CSA/TUV/CE	19.55	17.60	14.08	10.56
	159353CE	Mean Well	KA60AU	17	+5/1, ±12/0.5	100-240@50-60	5-pin DIN M	Yes	Black	4.1 x 2.6 x 1.5	6'/5"	1.0	UL/CSA/TUV	36.95	33.26	26.60	21.89
	364146CE	Ault	SW306KF	17	+5/1, ±12/0.8 -12/0.2	100-250@50-60	5-pin DIN M	No	Black	5.1 x 3.0 x 1.6	6'/1"	1.1	UL/CSA/TUV/CE	26.95	24.26	19.40	14.55
21-29 Watt	213575CE	Mean Well	P40A-1P2JU	25	+5/5.0	100-240@50-60	2.1mm x 5.5mm F 2	Yes	Black	4.3 x 2.6 x 1.4	6'/6"	0.7	UL/CUL/TUV/CE	29.95	26.96	21.56	16.97
	379698CE	Mean Well	ES25A07-P1JU	22	+7.5/2.93	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	3.7 x 2.1 x 1.4	6'/6"	0.6	UL/CSA/TUV/CE	20.69	18.53	16.22	15.45
	380496CE	Mean Well	ES25A07-P1MU	22	+7.5/2.93	90-264@47-63	2.5mm x 5.5mm F 2	Yes	Black	3.7 x 2.1 x 1.4	6'/6"	0.6	UL/CSA/TUV/CE	20.69	18.53	16.22	15.45
	377908CE	Mean Well	P30A-1-1P2JU	23	+7.5/3.06	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	4.3 x 2.6 x 1.4	6'/6"	0.6	UL/CSA/TUV/CE	23.69	21.80	20.76	19.71
	379751CE	Mean Well	P30A-1-1P2MU	23	+7.5/3.06	90-264@47-63	2.5mm x 5.5mm F 2	Yes	Black	4.3 x 2.6 x 1.4	6'/6"	0.7	UL/CSA/TUV/CE	23.69	21.80	20.76	19.71
	379727CE	Mean Well	ES25A09-P1JU	25	+9/2.78	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	3.7 x 2.1 x 1.4	6'/6"	0.6	UL/CSA/TUV/CE	20.69	18.53	16.22	15.45
	380517CE	Mean Well	ES25A09-P1MU	25	+9/2.78	90-264@47-63	2.5mm x 5.5mm F 2	Yes	Black	3.7 x 2.1 x 1.4	6'/6"	0.6	UL/CSA/TUV/CE	20.69	18.53	16.22	15.45
	211019CE	Mean Well	KA52BJF5	25	+9/2.78	100-240@47-63	2.5mm x 5.5mm F 2	No	Black	4.2 x 2.6 x 1.5	6'/2"	0.9	UL/CSA/TUV/CE	29.95	26.96	21.56	16.17
	379778CE	Mean Well	ES25A12-P1JU	25	+12/2.08	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	3.7 x 2.1 x 1.4	6'/6"	0.6	UL/CSA/TUV/CE	20.69	18.53	16.22	15.45
	380533CE	Mean Well	ES25A12-P1MU	25	+12/2.08	90-264@47-63	2.5mm x 5.5mm F 2	Yes	Black	3.7 x 2.1 x 1.4	6'/6"	0.6	UL/CSA/TUV/CE	20.69	18.53	16.22	15.45
	377895CE	Mean Well	P30A-3P2JU	27	+12/2.25	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	4.3 x 2.6 x 1.4	6'/6"	0.6	UL/CSA/TUV/CE	23.69	21.80	20.76	19.71
	379823CE	Mean Well	ES25A15-P1JU	25	+15/1.66	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	3.7 x 2.1 x 1.4	6'/6"	0.6	UL/CSA/TUV/CE	20.69	18.53	16.22	15.45
	380541CE	Mean Well	ES25A15-P1MU	25	+15/1.66	90-264@47-63	2.5mm x 5.5mm F 2	Yes	Black	3.7 x 2.1 x 1.4	6'/6"	0.6	UL/CSA/TUV/CE	20.69	18.53	16.22	15.45
	243011CE	Mean Well	P30A-41P2JU	27	+15/1.8	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	4.2 x 2.6 x 1.4	6'/6"	0.8	UL/CUL/TUV/CE	23.69	21.80	20.76	19.71
	206455CE	Ault	SC100	25	+16/1.56	100-240@50-60	2.5mm x 5.5mm F 2	No	Black	4.2 x 2.6 x 1.5	6'/6"	1.2	UL/CUL/TUV/CE	14.95	13.46	10.76	8.07
	379840CE	Mean Well	ES25A18-P1JU	25	+18/1.38	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	3.7 x 2.1 x 1.4	6'/6"	0.6	UL/CSA/TUV/CE	20.69	18.53	16.22	15.45
	380550CE	Mean Well	ES25A18-P1MU	25	+18/1.38	90-264@47-63	2.5mm x 5.5mm F 2	Yes	Black	3.7 x 2.1 x 1.4	6'/6"	0.6	UL/CSA/TUV/CE	20.69	18.53	16.22	15.45
379882CE	Mean Well	ES25A24-P1JU	25	+24/1.04	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	3.7 x 2.1 x 1.4	6'/6"	0.6	UL/CSA/TUV/CE	20.69	18.53	16.22	15.45	
380576CE	Mean Well	ES25A24-P1MU	25	+24/1.04	90-264@47-63	2.5mm x 5.5mm F 2	Yes	Black	3.7 x 2.1 x 1.4	6'/6"	0.6	UL/CSA/TUV/CE	20.69	18.53	16.22	15.45	

* See accessory table-top power cord chart on page 194 when AC cord needed; refer to 1, 2 or 3 in "Cord (DC/AC)" column above for correct power cord

▲ Brand and product number may vary except for ReliaPro, Mean Well, Phihong and GlobTek

† Right angle

⊗ Blue Part No. = Limited Quantity Available

3-Wire Table-Top Power Supplies continued on next page

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AC-to-DC Regulated Switching Table-Top Power Supplies (Continued)

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See page 203 for International Power Cords

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229032CE



203043CE



211191CE



211107CE

Polarity 1 \oplus \ominus (center negative)



Female



Male

Polarity 2 \ominus \oplus (center positive)



DIN M

Quantity SAVE

Power	Part Number	Brand ▲	Product Number ▲	Output		Input VAC@Hz	Output Connector ID x OD/Polarity F = female; M = male	Pwr. Ind.	Color	Size (L" x W" x H")	Cords* (DC/AC)	Wt. (lbs.)	Agency Approvals	Pricing			
				Pwr (W)	Volts (VDC)/ Current (A)									1	10	50	100
3-Wire AC Input – Regulated Switching (Continued)																	
21-29 Watt	221680CE	Mean Well	P30A-6P2JU	27	+24/1.1	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	4.3 x 2.6 x 1.4	6'/6'	0.8	UL/CSA/TUV/CE	\$26.95	\$24.29	\$21.85	\$19.65
	379891CE	Mean Well	ES25A28-P1JU	25	+28/0.89	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	3.7 x 2.1 x 1.4	6'/6'	0.6	UL/CSA/TUV/CE	20.69	18.53	16.22	15.45
	380584CE	Mean Well	ES25A28-P1MU	25	+28/0.89	90-264@47-63	2.5mm x 5.5mm F 2	Yes	Black	3.7 x 2.1 x 1.4	6'/6'	0.6	UL/CSA/TUV/CE	20.69	18.53	16.22	15.45
	379903CE	Mean Well	ES25A48-P1JU	25	+48/0.52	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	3.7 x 2.1 x 1.4	6'/6'	0.6	UL/CSA/TUV/CE	20.69	18.53	16.22	15.45
	380605CE	Mean Well	ES25A48-P1MU	25	+48/0.52	90-264@47-63	2.5mm x 5.5mm F 2	Yes	Black	3.7 x 2.1 x 1.4	6'/6'	0.6	UL/CSA/TUV/CE	20.69	18.53	16.22	15.45
	215087CE	Mean Well	P30A-8P2JU	27	+48/0.56	100-240@50-60	2.1mm x 5.5mm F 2	Yes	Black	4.3 x 2.6 x 1.4	6'/6'	0.7	UL/CSA/TUV/CE	21.89	19.89	18.09	16.59
	196269CE	Everglow	PSU25A13	25	+5/2.5, +12/1.0	100-240@47-63	4-pin mini DIN M	No	Black	4.2 x 2.6 x 1.4	6'/4'	1.2	UL/CUL/TUV/CE	27.95	25.19	22.65	20.39
	190650CE	Ault	SW300	25	+5/4, +12/1.0	100-250@50-60	5-pin DIN M	No	Black	5.9 x 3.4 x 2.1	6'/2	1.5	UL/CSA/TUV	9.95	8.96	7.16	5.37
	190959CE	Mean Well	P25A13D-R1U	26	+5/2.5, +12/0.8 -12/0.3	100-240@47-63	5-pin DIN M	Yes	Black	4.1 x 2.6 x 1.4	6'/6'	1.1	CUL/TUV/CE	32.95	29.69	26.69	24.05
	221719CE	Mean Well	P25A14E-R1BU	25	+5/2.5, +15/0.3 -15/0.3	90-264@47-63	5-pin DIN M	Yes	Black	4.3 x 2.6 x 1.4	6'/6'	0.8	UL/CUL/TUV/CE	32.95	29.69	26.69	24.05
30-40 Watt	320080CE	GlobTek	TR9CA6000LCP-Y	30	+5/6.0	100-240@50-60	2.5mm x 5.5mm F 2	Yes	Black	4.7 x 2.4 x 1.3	6'/2	0.7	UL/CUL/TUV/CE	24.69	22.89	20.59	18.55
	206527CE	Mean Well	P40A-1-1P25U	30	+7.5/4.0	100-240@50-60	2.1mm x 5.5mm F 2	No	Black	4.3 x 2.7 x 1.5	6'/6'	1.5	UL/CUL/TUV/CE	29.95	26.95	23.95	21.95
	229008CE	Phihong	PSA31U-120	30	+12/2.5	90-264@47-63	2.1mm x 5.5mm F 2	No	Black	4.5 x 2.4 x 1.4	6'/2	0.5	UL/CUL/TUV/CE	26.95	24.25	21.85	20.66
	401041CE	ReliaPro	EA10362	36	+12/3.0	120-240@50-60	2.1mm x 5.5mm F 2	Yes	Black	3.9 x 1.8 x 1.2	6'/3	0.6	UL/CUL/TUV/CE	23.69	21.17	19.14	18.19
	155213CE	Mean Well	P40A-3P2JU	40	+12/3.3	100-240@50-60	2.1mm x 5.5mm F 2	Yes	Black	4.3 x 2.6 x 1.4	6'/6'	0.7	UL/CUL/TUV	35.95	32.36	29.12	26.21
	297692CE	Mean Well	P40A-3P2MU	40	+12/3.3	90-264@47-63	2.5mm x 5.5mm F 2	Yes	Black	4.3 x 2.6 x 1.4	6'/6'	0.7	UL/CUL/VDE/CE	35.95	32.36	29.12	26.21
	355063CE	ReliaPro	JR-TT-40-12	40	+12/3.33	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	4.3 x 2.6 x 1.4	6'/2	0.6	UL/CUL/TUV/CE	29.39	23.51	20.58	19.52
	229016CE	Phihong	PSA31U-150	30	+15/2.0	90-264@47-63	2.1mm x 5.5mm F 2	No	Black	4.5 x 2.4 x 1.4	6'/2	0.5	UL/CUL/TUV/CE	26.95	24.25	22.12	21.90
	221755CE	Mean Well	P40A-4P2JU	40	+15/2.7	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	4.3 x 2.6 x 1.4	6'/6'	0.8	UL/CUL/TUV/CE	33.95	30.56	27.50	24.75
	230480CE	Phihong	PSA31U-180	30	+18/1.6	90-264@47-63	2.1mm x 5.5mm F 2	No	Black	3.9 x 2.2 x 1.2	6'/2	0.5	UL/CUL/TUV/CE	26.95	24.25	21.85	20.75
	229024CE	Phihong	PSA31U-240	30	+24/1.25	90-264@47-63	2.1mm x 5.5mm F 2	No	Black	4.5 x 2.4 x 1.4	6'/2	0.5	UL/CUL/TUV/CE	26.95	24.25	21.85	20.66
	181884CE	Mean Well	P40A-6P2JU	40	+24/1.7	100-240@50-60	2.1mm x 5.5mm F 2	Yes	Black	4.3 x 2.6 x 1.4	6'/6'	0.7	UL/TUV/CE	35.95	32.36	29.12	26.21
	297756CE	Mean Well	P40A-6P2MU	40	+24/1.7	90-264@47-63	2.5mm x 5.5mm F 2	Yes	Black	4.3 x 2.6 x 1.4	6'/6'	0.7	UL/CUL/VDE/CE	35.95	32.36	29.12	26.21
	229032CE	Phihong	PSA31U-480	30	+48/0.63	90-264@47-63	2.1mm x 5.5mm F 2	No	Black	4.5 x 2.4 x 1.6	6'/2	0.5	UL/CUL/TUV/CE	26.95	24.25	22.12	21.90
	221583CE	Mean Well	P40A-8P2JU	40	+48/0.8	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	4.3 x 2.6 x 1.4	6'/6'	0.8	UL/CUL/TUV/CE	33.95	30.56	24.44	18.33
	203043CE	Ault	SC200	32	+5/4, +12/1	100-240@50-60	5-pin DIN M	No	Black	5.0 x 3.0 x 1.6	6'/2	1.3	UL/CSA/CE	19.95	17.95	12.95	9.95
	211191CE	Westinghouse	FSA30P31	30	+5/3, +12/0.8	85-264@47-63	5-pin DIN M	No	Black	5.8 x 3.0 x 1.7	4'/2	1.1	UL/CSA/TUV	25.95	23.35	18.68	14.01
	404443CE	AcroPower	ASX30T-577/07	30	+5/3, +12/0.1 -12/0.5	100-240@50-60	5-pin DIN M	No	Black	6.0 x 3.5 x 2.0	6'/6'	2.0	UL/CUL/CE	19.95	18.45	17.53	16.65
41-59 Watt	221487CE	Mean Well	SPU50-1U	50	+5/10	90-264@47-63	5-pin DIN M	Yes	Black	5.7 x 3.0 x 1.7	6'/6'	2.0	UL/CUL/TUV/CE	36.95	33.95	31.95	29.49
	221701CE	Mean Well	P50A13D-R1BU	50	+5/4.0, +12/2.0 -12/0.5	90-264@47-63	5-pin DIN M	Yes	Black	5.7 x 3.0 x 1.7	4'/6'	1.5	UL/CUL/TUV/CE	48.95	44.09	39.69	35.69
	215132CE	Mean Well	U45T302-R1BU	42	+5/5, +12/1, -12/0.3	90-264@47-63	5-pin DIN M	Yes	Black	5.8 x 3.1 x 1.8	4'/6'	1.4	UL/CUL/TUV/CE	49.95	44.99	40.49	36.45
	211107CE	Fortron	FSA55P31	45	+5/5, +12/3 -12/0.5	85-264@50-60	5-pin DIN M	Yes	Black	7.0 x 3.8 x 2.2	4'/2	1.6	UL/CSA/TUV	49.95	44.96	35.96	26.24
	237366CE	Mean Well	P50A14E-R1BU	42	+5/3.5, +15/1.2 -15/0.3	100-240@47-63	5-pin DIN M	Yes	Black	5.8 x 3.0 x 1.7	4'/6'	1.2	UL/CUL/TUV/CE	36.95	33.25	32.39	31.53
60-80 Watt	155230CE	Mean Well	SPU50-3U	60	+12/5.0	100-240@47-63	2.1mm x 5.5mm F 2	Yes	Black	5.7 x 3.0 x 1.7	6'/6'	1.3	UL/CSA/TUV	49.95	44.95	39.95	35.95
	297721CE	Mean Well	SPU50-3P2MU	60	+12/5.0	90-264@47-63	2.5mm x 5.5mm F 2	Yes	Black	5.7 x 3.0 x 1.7	6'/6'	1.3	UL/CUL/TUV/CE	49.95	44.95	39.95	35.95
	376606CE	Mean Well	P66A-3P2JU	66	+12/5.5	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	5.8 x 3.0 x 1.7	6'/6'	1.2	UL/CSA/TUV/CE	34.95	31.92	27.93	26.59
	379671CE	Mean Well	P66A-3P2MU	66	+12/5.5	90-264@47-63	2.5mm x 5.5mm F 2	Yes	Black	5.8 x 3.0 x 1.7	6'/6'	1.2	UL/CSA/TUV/CE	34.95	31.92	27.93	26.59
	391742CE	Mean Well	P66A-4P2JU	66	+15/4.4	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	5.8 x 3.0 x 1.7	6'/6'	1.2	UL/CSA/TUV/CE	34.95	31.92	27.93	26.59
	182959CE	Elpac	W7212	72	+12/6.0	95-250@47-63	5-pin DIN M	—	Black	6.2 x 3.8 x 2.6	6'/6'	2.5	UL/CSA/CE	54.95	49.49	39.59	29.69
	221428CE	Mean Well	U65S105-P2JU	80	+12/6.7	95-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	6.6 x 3.1 x 1.8	6'/6'	2.0	UL/CUL/TUV/CE	64.95	58.46	52.61	43.84
	221436CE	Mean Well	U65S106-P2JU	80	+15/5.33	95-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	6.6 x 3.1 x 1.8	6'/6'	2.0	UL/CUL/TUV/CE	64.95	55.29	49.95	47.49
	243045CE	Mean Well	P66A-5P2JU	66	+18/3.66	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	5.8 x 3.0 x 1.7	6'/6'	1.2	UL/CUL/TUV/CE	38.49	34.91	32.21	29.55
	221444CE	Mean Well	U65S107-P2JU	80	+18/4.4	95-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	6.6 x 3.1 x 1.8	6'/6'	2.0	UL/CUL/TUV/CE	64.95	55.29	49.95	47.49

* See accessory table-top power cord chart on page 194 when AC cord needed; refer to 1, 2 or 3 in "Cord (DC/AC)" column above for correct power cord

▲ Brand and product number may vary except for ReliaPro, Mean Well, Phihong and GlobTek

3-Wire Table-Top Power Supplies continued on next page

AC-to-DC Regulated Switching Table-Top Power Supplies

See page 203 for International Power Cords

We will change any power plug (pg 136) on any table-top power supply (100 pc. minimum).



297633CE



355055CE



172064CE



221461CE

Polarity 1 $\oplus \ominus \ominus$ (center negative)



Female



Male

Polarity 2 $\ominus \oplus \oplus$ (center positive)

Power	Part Number	Brand ▲	Product Number ▲	Output		Input VAC@Hz	Output Connector ID x OD/Polarity F = female; M = male	Pwr. Ind.	Color	Size (L" x W" x H")	Cords* (DC/AC)	Wt. (lbs.)	Agency Approvals	Pricing			
				Pwr (W)	Volts (VDC)/ Current (A)									1	10	50	100
3-Wire AC Input – Regulated Switching (Continued)																	
60-80 Watt	161605CE	Mean Well	SPU50-6U	60	+24/2.5	100-240@47-63	2.1mm x 5.5mm F 2	Yes	Black	5.6 x 2.9 x 1.6	1'9"/6'	1.3	UL/CSA/TUV	\$44.95	\$39.95	\$35.95	\$32.95
	297633CE	Mean Well	SPU50-6P2MU	60	+24/2.5	95-264@47-63	2.5mm x 5.5mm F 2	Yes	Black	5.7 x 3.0 x 1.7	6'/6"	1.3	UL/CUL/TUV/CE	44.95	39.95	35.95	32.95
	355055CE	ReliaPro	JR-TT-66-24	66	+24/2.75	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	5.8 x 3.0 x 1.7	6'/2"	1.2	UL/CUL/TUV/CE	34.95	32.21	28.68	27.31
	221452CE	Mean Well	U65S108-P2JU	80	+24/3.3	95-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	6.6 x 3.1 x1.8	6'/6"	2.0	UL/CUL/TUV/CE	64.95	55.29	49.95	47.49
	376614CE	Mean Well	P66A-8P2JU	66	+48/1.37	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	5.8 x 3.0 x 1.7	6'/6"	1.2	UL/CSA/TUV/CE	34.95	31.92	27.93	26.59
	379680CE	Mean Well	P66A-8P2MU	66	+48/1.37	90-264@47-63	2.5mm x 5.5mm F 2	Yes	Black	5.8 x 3.0 x 1.7	6'/6"	1.2	UL/CSA/TUV/CE	34.95	31.92	27.93	26.59
	172064CE	Mean Well	SPU50-9U	60	+48/1.25	100-240@47-63	2.1mm x 5.5mm F 2	Yes	Black	5.6 x 2.9 x 1.7	6'/6"	1.3	UL/CSA/TUV	44.95	40.49	36.45	32.79
	221461CE	Mean Well	U65S111-P2JU	80	+48/1.7	95-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	6.6 x 3.1 x 1.8	6'/6"	2.0	UL/CUL/TUV/CE	64.95	55.29	49.95	47.49

* See accessory table-top power cord chart on page 194 when AC cord needed; refer to 1, 2 or 3 in "Cord (DC/AC)" column above for correct power cord

▲ Brand and product number may vary except for ReliaPro, Mean Well, Phihong and GlobTek

Compact DC Regulated Switching Power Adapter with Detachable Plugs

This state-of-the-art switching power adapter offers some major advantages such as stabilized outputs, short circuit and overload protection, compact design, and low idle consumption versus typical wall adapters.

- 8 plugs: 2.5mm M mono, 3.5mm M mono, 1.0mm x 3.0mm F, 1.3mm x 3.5mm F, 1.7mm x 4.0mm F, 2.1mm x 5.0mm F, 1.5mm x 5.5mm F, and 2.5mm x 5.5mm F
- Selectable output voltages: 3 / 4.5 / 6 / 7.5 / 9 / 12 VDC @ 800mA (regulated) with 1.5A max. output

See pages 195-200 for our selection of wall adapters.



Part No.	Description	Input Voltage	Power Output	Efficiency	Size	Weight	Price
239564CE	Compact power adapter	100-240VAC	10W	80%	2.9"H x 1.2"W x 1.9"D	0.2 lbs.	\$19.95

AC-to-DC Regulated Linear Table-Top Power Supplies

We will change any power plug (pg 136) on any table-top power supply (100 pc. minimum).

See page 203 for International Power Cords



211060CE



265295CE



318756CE



243088CE

DIN M

Polarity 1 $\oplus \ominus \ominus$ (center negative)



Female



Male

Polarity 2 $\ominus \oplus \oplus$ (center positive)

Power	Part Number	Brand ▲	Product Number ▲	Output		Input VAC@Hz	Output Connector ID x OD/Polarity F = female; M = male	Pwr. Ind.	Color	Size (L" x W" x H")	Cords* (DC/AC)	Wt. (lbs.)	Agency Approvals	Quantity SAVE			
				Pwr (W)	Volts (VDC)/ Current (A)									Pricing			
														1	10	50	100
2-Wire AC Input – Regulated Linear																	
5-25	211060CE	Pacific Data	DV-51AAT	5	+5/1	120@60	2.1mm x 5.5mm rt angle F 2	No	Black	3.4 x 2.7 x 2.2	6'6'/6'	1.7	UL/CSA	\$11.95	\$10.76	\$8.07	\$5.95
	174844CE	Jameco	DCR2410F12	24	+24/1	120@60	2.1mm x 5.5mm F 2	No	Black	4.4 x 3.0 x 2.5	6'6"	2.6	—	18.65	16.78	13.42	10.07
3-Wire AC Input – Regulated Linear																	
5-20 Watts	154624CE	Motorola	5712-305-4C3E [†]	5.6	+5/0.5, ±12/0.13	120@60	8-pin mini DIN M	No	Black	2.9 x 2.6 x 1.9	6'1/2	1.2	UL/CSA	\$12.95	\$11.66	\$9.32	\$6.99
	265295CE	—	T5121000/37	12.2	+5/1, ±12/0.3	120@60	5-pin DIN M	No	Black	4.5 x 3.0 x 2.5	6'6"	2.6	UL/CSA	9.69	8.72	7.85	6.56
	318756CE	Adcom	WM113TT	13	+5/0.86, ±12/0.3	115@60	5-pin DIN M	No	Black	4.9 x 3.0 x 2.2	6'6"	1.3	UL/CSA	31.99	27.15	25.75	24.45
	243088CE	Regal	RJM-551228	17.4	+5/0.9, ±12/0.62 -5/0.2, -28/0.16	120@60	6-pin DIN M	No	Black	5.9 x 3.6 x 2.6	6'6"	3.4	UL/CUL	8.49	7.70	7.00	6.36

[†] Wall-Mount * See accessory table-top power cord chart on page 194 when AC cord needed; refer to 1, 2 or 3 in "Cord (DC/AC)" column above for correct power cord

▲ Brand and product number may vary except for ReliaPro, Mean Well, Phihong and GlobTek

Color Code Legend
New Sale Lower\$ QtySave

Order 24/7 Toll Free 1-800-831-4242

193

AC-to-DC Unregulated Table-Top Power Supplies

Color Code Legend
New Sale Lower\$ QtySave

We will change any power plug (pg 136) on any table-top power supply (100 pc. minimum).

See page 203 for International Power Cords



Stripped



243109CE



354941CE



220919CE



319222CE

SALE

Quantity SAVE

Polarity 1 \oplus \ominus \ominus (center negative)

Female

Male

Polarity 2 \ominus \oplus \oplus (center positive)

Power	Part Number	Brand ▲	Product Number ▲	Output		Input VAC@Hz	Output Connector ID x OD/Polarity F = female; M = male	Pwr. Ind.	Color	Size (L" x W" x H")	Cords* (DC/AC)	Wt. (lbs.)	Agency Approvals	Pricing			
				Power (W)	Volts (VDC)/Current (A)									1	10	50	100
2-Wire AC Input – Unregulated																	
9-30 Watts	190051CE	APS	APS48EA114	10	+7/1.5	120@60	2.5mm x 5.5mm F 2	No	Black	3.4 x 2.3 x 1.9	6'6"	1.9	UL/CUL	\$9.95	\$8.99	\$7.19	\$5.39
	243109CE	Regal	JK-91001-N	9	+9/1.0	120@60	Stripped & Tinned	No	Black	3.3 x 2.2 x 1.9	6'6"	1.2	UL/CSA	13.95	12.56	10.04	7.53
	354941CE	Terayon	AD-121ADT	12	+12/1.0	120@60	2.1mm x 5.5mm F 2	No	Black	3.2 x 2.3 x 1.9	6'6"	1.4	UL/CUL	14.95	13.46	12.11	10.90
	136565CE	Jameco	DDC1210P	12	+12/1.0	120@60	Stripped & Tinned	No	Black	3.2 x 2.2 x 1.9	6'6"	1.2	—	15.35	13.82	11.05	8.29
	140880CE	Jameco	DC1215ST	18	+12/1.5	120@60	Stripped & Tinned	No	Black	3.1 x 2.1 x 1.9	6'6"	1.5	UL	14.25	12.82	10.26	7.70
	143714CE	—	DC1220F1	24	+12/2.0	120@60	2.1mm x 5.5mm F 2	No	Black	3.8 x 2.8 x 2.3	6'6"	2.2	CUL-No UL	16.45	14.80	13.32	11.99
	143722CE	Jameco	DC1220F5	24	+12/2.0	120@60	2.5mm x 5.5mm F 2	No	Black	3.8 x 2.8 x 2.3	6'6"	2.2	UL/CUL	14.25	12.82	11.61	10.44
	143731CE	—	DC1220M3	24	+12/2.0	120@60	3.5mm M 2	No	Black	3.8 x 2.8 x 2.3	6'6"	1.9	CUL-No UL	14.25	12.64	10.33	7.69
	220919CE	Jameco	EFU135170 ⚡	23	+13.5/1.7	120@60	2.1mm x 5.5mm F 1	No	Black	3.4 x 2.7 x 2.1	6'6"	1.8	CUL-No UL	5.35	5.05	4.80	4.56
	139096CE	Jameco	DC2412F1	29	+24/1.2	120@60	2.1mm x 5.5mm F 2	No	Black	4.4 x 3.1 x 2.6	6'6"	2.5	—	16.45	14.84	13.36	12.04
173665CE	Skyenet	DND-3005	15	+30/0.5	120@60	2.5mm x 5.5mm F 2	No	Black	3.0 x 2.5 x 2.2	5'9"/3'2"	1.4	UL/CUL	11.95	10.76	8.60	6.45	
205920CE	Skyenet	DND-3012	30	+30/1.0	120@60	2.5mm x 5.5mm F 2	No	Black	4.0 x 2.9 x 2.5	6'6"	1.7	UL/CUL	8.95	8.06	6.44	4.83	
3-Wire AC Input – Unregulated																	
15-25	319222CE	—	SPU15A-3	15	+12/1.25	120@60	Stripped & Tinned	Yes	Black	3.6 x 1.5 x 1.4	15'3"/2'	—	UL/CUL/CE	\$15.65	\$14.08	\$11.27	\$8.45
	157956CE	Everglow	EFU120150	18	+12/1.5	120@60	2.5mm x 5.5mm F 2	No	Black	3.4 x 2.7 x 2.2	6'6"	2.0	UL	12.05	10.84	9.76	8.78
	196306CE	—	A51813D	23	+18/1.3	120@60	2.5mm x 5.5mm F 2	No	Black	3.6 x 2.4 x 2.0	6'6"	1.8	UL/CSA	12.95	11.69	9.34	7.04

* See accessory table-top power cord chart below when AC cord needed; refer to 1, 2 or 3 in "Cord (DC/AC)" column above for correct power cord ☑ Blue Part No. = Limited Quantity Available

▲ Brand and product number may vary except for ReliaPro, Mean Well, Phihong and GlobTek



38041CE



38050CE

Accessory Power Input Cords for Table-Top Power Supplies



189587CE

For Additional Power Cords See Page 204.

Part No.	Ref. No.**	Description	Color	AWG	Certification	Cord Length	Wt. (lbs.)	Cord Type	1	10	100	250
38041CE	1	3-conductor power cord	Beige	18/3	UL/CSA	6'	0.4	SVT	\$3.49	\$3.15	\$2.79	\$2.49
38050CE	2	3-conductor power cord	Black	18/3	UL/CSA	6'	0.4	SVT	3.75	3.29	2.89	2.17
189587CE	3	2-conductor power cord	Black	18/2	UL/CSA	6'	0.3	SPT	2.49	2.24	1.79	1.34

Medical Table-Top & Wall Switching AC-to-DC Power Supplies

GlobTek®

AC-to-DC Medical Table-Top Regulated Switching Power Supplies



- Input voltage: 90-264VAC @ 47-63Hz
- Leakage current: 0.1mA maximum
- Regulation (line & load): $\pm 5\%$
- Ripple and noise: 1% or 100mV, whichever is smaller
- 2.5mm x 5.5mm female center positive
- Cord lengths: DC: 6'; AC: use P/N 115078CE, pg 204
- Size: 2.9"L x 2.0"W x 1.6"H
- UL/CUL/TUV/CE approved for medical applications



SALE



Part Number	Product Number	Power (W)	Output		Pricing			
			Volts (VDC)/Current (A)		1	10	50	100
230658CE	TR9CA2600CP	13.0	+5/2.6		\$28.95	\$26.06	\$23.72	\$22.47
230682CE	TR9CE1250CP	15.6	+12/1.3		32.95	29.65	26.69	23.99
230691CE	TR9CG1200CP	18.0	+15/1.2		32.95	29.65	26.69	23.99
230711CE	TR9CI750CP	16.8	+24/0.7		28.95	26.06	23.72	22.47
230738CE	TR9CA6000LCP	30.0	+5/6.0		46.95	42.26	33.80	32.08
230762CE	TR9CE4000LCP	49.2	+12/4.0		52.95	47.65	42.89	38.59
230771CE	TR9CG3333LCP	49.5	+15/3.3		46.95	42.26	33.80	32.08
230797CE	TR9CI2100LCP	50.4	+24/2.1		52.95	47.66	38.12	32.08

GlobTek®

AC-to-DC Medical Regulated Switching Wall Adapters

- Input voltage: 100-240VAC @ 47-63Hz
- 3-prong input plug
- Leakage current: 0.1mA maximum
- Isolation voltage: 4,000VAC
- Regulation (line & load): $\pm 5\%$
- Ripple and noise: 1% or 100mV, whichever is smaller
- 2.5mm x 5.5mm female center positive
- Output cord length: 6'
- Size: 2.9"H x 1.9"W x 1.6"D
- Agency approval: UL/CUL/TUV/CE approved for medical applications



SALE

Part Number	Product Number	Power (W)	Output		Pricing			
			Volts (VDC)/Current (A)		1	10	50	100
230818CE	WR92A2600LCP	13.0	+5 @ 2.6		\$26.99	\$24.52	\$22.29	\$20.27
230842CE	WR92E1250LCP	15.6	+12 @ 1.3		30.95	27.86	25.07	22.56
230877CE	WR92I750LCP	16.8	+24 @ 0.75		26.99	24.52	22.29	20.27

For Open-Frame Medical Power Supplies see page 172.

JAMECO ReliaPro

"Slim Line" Regulated Switching Wall Adapters

Compact in size and lightweight, they are the perfect power solution in all those applications where space is critical. And their high efficiency satisfies requirements for minimizing power losses. You no longer have to deal with traditional wall adapters that block unused outlets in wall plates and power strips/surge protectors.

- 2-wire AC input
- Input voltage: 100 – 240VAC@47-63Hz
- Output cord length: 6'
- Output connector: 2.1mm x 5.5mm F2 (center positive)

A Jameco
EXCLUSIVE

We'll Brand the Adapters
With Your Company Name
Call 1-800-831-4242 for Details



- Color: black
- One year warranty



⚡ Blue Part No. = Limited Quantity Available

Part Number	Cross Ref. Number	Output Rating		Size (H"xW"xD")	Wt. (lbs.)	Pricing			
		Volt (VDC)	Curr. (mA)			1	10	50	100
251563CE	S08AA033150	3.3	1500	2.5x1.1x1.7	0.2	\$12.05	\$10.93	\$10.09	\$9.74
251598CE	S15AA033250	3.3	2500	2.9x1.3x2.2	0.3	12.65	11.47	10.59	10.22
252700CE	S08AB050050	5.0	500	2.5x1.1x1.7	0.2	11.55	10.47	9.67	9.34
252718CE	S08AB050100	5.0	1000	2.5x1.1x1.7	0.2	12.05	10.93	10.09	9.74
252726CE	S08AB050150	5.0	1500	2.5x1.1x1.7	0.2	12.65	11.47	10.59	10.21
252734CE	S15AB050250	5.0	2500	2.9x1.3x2.2	0.3	13.15	11.94	10.99	10.60
252751CE	S08AD090050	9.0	500	2.5x1.1x1.7	0.2	12.05	10.94	10.09	9.74
252769CE	S08AD090090	9.0	800	2.5x1.1x1.7	0.2	12.65	11.47	10.59	10.22
252777CE	S15AD090120	9.0	1200	2.9x1.3x2.2	0.3	13.15	11.94	10.99	10.60
252785CE	S15AS090170	9.0	1500	2.9x1.3x2.2	0.3	13.75	12.47	11.52	11.11
252793CE	S08AE120025	12.0	250	2.5x1.1x1.7	0.2	11.55	10.47	9.67	9.33
252806CE	S08AE120050	12.0	500	2.5x1.1x1.7	0.2	12.05	10.93	10.09	9.74

Part Number	Cross Ref. Number	Output Rating		Size (H"xW"xD")	Wt. (lbs.)	Pricing			
		Volt (VDC)	Curr. (mA)			1	10	50	100
252814CE	S08AE120070	12.0	600	2.5x1.1x1.7	0.2	\$12.65	\$11.47	\$10.59	\$10.22
252822CE	S15AE120100	12.0	1000	2.9x1.3x2.2	0.3	13.15	11.94	10.99	10.60
252831CE	S15AE120140	12.0	1250	2.9x1.3x2.2	0.3	14.25	12.94	11.94	11.52
252881CE	S08AF150013	15.0	130	2.5x1.1x1.7	0.2	11.55	10.47	9.67	9.33
252890CE	S08AF150050	15.0	500	2.5x1.1x1.7	0.2	12.65	11.47	10.59	10.22
254756CE	S15AF150080	15.0	800	2.9x1.3x2.2	0.2	13.15	11.94	10.99	10.60
252902CE	S15AF150120	15.0	1000	2.9x1.3x2.2	0.3	14.25	12.94	11.94	11.52
252849CE	S08AH240013	24.0	130	2.5x1.1x1.7	0.2	11.55	10.47	9.67	9.33
252857CE	S08AH240025	24.0	250	2.5x1.1x1.7	0.2	12.05	10.93	10.09	9.74
252865CE	S15AH240050	24.0	500	2.9x1.3x2.2	0.3	13.15	11.94	10.99	10.60
252873CE	S15AH240063	24.0	630	2.9x1.3x2.2	0.3	13.75	12.47	11.94	11.52

Interchangeable-Plug Wall Adapters

- Field changeable AC Plugs (sold separately, see below)
- Power-On LED
- Input voltage: 90-264VAC@47-63Hz
- Output connector: 2.1mm x 5.5mm female center positive

- Regulated output
- Double insulated
- Class B EMI



4 to 5-Watt Wall Adapters (Plug clip required, see below)

- Applications: PDAs, digital cameras, MPEG players, personal electronics
- Dimensions: 2.8"L x 1.8"W x 1.2"H

- Efficiency: 60% min.
- Weight: 0.3 lbs.

SALE



Part No.	Manufacturer	Product No.	Power (W)	Output Voltage (VDC)	Current (A)	Ripple (mVp-p)	Line Regulation	Load Regulation	1	5	25	100
228734CE	Phihong	PSA05R-033	4.0	3.3	1.2	50	±1%	±5%	\$16.69	\$15.15	\$13.79	\$12.44
228751CE	Phihong	PSA05R-090	5.0	9.0	0.56	90	±1%	±5%	16.69	15.15	13.79	12.44

6 to 10-Watt Wall Adapters (Plug clip required, see below)

- Applications: wireless communications, portable equipment, digital camera, peripherals, networking
- Dimensions: 3.4"L x 2.1"W x 1.4"H
- Efficiency: 65% typical
- Weight: 0.3 lbs.



Part No.	Manufacturer	Product No.	Power (W)	Output Voltage (VDC)	Current (A)	Ripple (mVp-p)	Line Regulation	Load Regulation	1	5	25	100
228785CE	Phihong	PSA11R-033	6.6	3.3	2.0	50	±1%	±5%	\$16.99	\$15.42	\$14.02	\$12.75
228814CE	Phihong	PSA11R-120	10.0	12.0	0.83	120	±1%	±5%	17.69	16.07	15.15	14.24

20-Watt Wall Adapter with LoadSense™ (Plug clip required, see below)

- Senses and controls the voltage out the connector, eliminating the effect of a voltage drop in the cable
- Applications: peripherals, portable equipment, gaming machines, point-of-sale equipment, network equipment
- Dimensions: 3.9"L x 2.5"W x 1.4"H
- Efficiency: 70% Typical
- Weight: 0.6 lbs.



Part No.	Manufacturer	Product No.	Power (W)	Output Voltage (VDC)	Current (A)	Ripple (mVp-p)	Line Regulation	Load Regulation	1	5	25	100
228849CE	Phihong	PSA21R-120	20.0	12.0	1.67	120	±1%	±2%	\$27.15	\$24.65	\$23.32	\$21.99

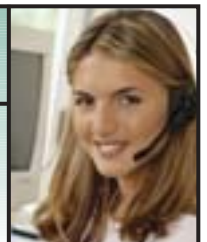
AC Plug Clips and Plug Clip Kits (sold separately, required for above adapters)

Part No.	Manufacturer	Product No.	Description	1	10	50	100
229155CE	Phihong	RPA	USA Plug	\$0.53	\$0.51	\$0.50	\$0.49
229163CE	Phihong	RPE	European Plug	.61	.59	.58	.57
229180CE	Phihong	RPKIT	Kit w/ RPA/RPE/RPK/RPS (AUST)	2.65	2.39	2.32	2.25



30-Day Money-Back Guarantee

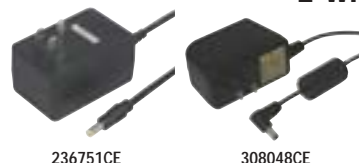
If you're not completely satisfied with your purchase, simply return the product within 30 days for a refund or exchange. Details on page 284.



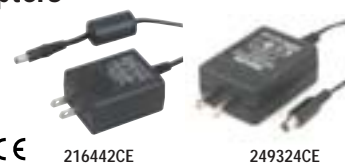
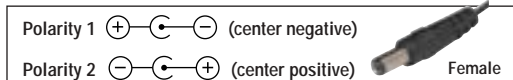
AC-to-DC Regulated Switching Wall Adapters (Continued)

Color Code Legend
New Sale Lower\$ QtySave

2-Wire AC Input – AC-to-DC Regulated Switching Wall Adapters



We specialize in Wall Adapters – Call for additional OEM PRICING.
We will change any power plug (pg 136) on any DC wall adapter listed (100 pc. minimum).



Part Number	Brand ▲	Product Number ▲	Output Rating		Output Connector ID x OD/Polarity F = female; M = male	Input VAC @ Hz	Size H" x W" x D"	Case Color	Output Cord Length	Weight (lbs.)	Agency Approvals	Pricing			
			Voltage (VDC)	Current (mA)								1	10	50	100
230543CE	Phihong	PSA05A-050	5	1000	2.1mm x 5.5mm F 2	90-264@47-63	2.4 x 1.8 x 1.0	Black	4'	0.4	UL/CUL	\$10.95	\$9.86	\$7.88	\$5.91
228881CE	Phihong	PSC10A-050	5	2000	2.1mm x 5.5mm F 2	90-132@57-63	2.9 x 1.9 x 1.4	Black	6'	0.4	UL/CUL	13.09	11.88	11.12	10.36
210893CE	ReliaPro	S15AB050200	5	2000	2.5mm x 5.5mm F 2	100-240@47-63	2.9 x 1.4 x 2.2	Black	6'	0.2	UL/CUL	14.25	12.86	11.54	9.63
236751CE	GlobTek	WR92A2600CCP1	5	2600	2.1mm x 5.5mm F 2	100-240@50-60	2.9 x 1.9 x 1.6	Black	6'	0.5	UL/CUL/TUV/CE	13.49	12.15	10.95	9.85
319880CE	Mean Well	ES18U05-PJ	5	3000	2.1mm x 5.5mm F 2	90-264@47-63	3.1 x 2.1 x 1.3	Black	6'	0.5	UL/CUL/CE	12.29	11.35	10.62	9.89
228937CE	Phihong	PSC15A-050	5	3000	2.1mm x 5.5mm F 2	90-132@57-63	2.9 x 1.9 x 1.4	Black	6'	0.4	UL/CUL	13.55	12.29	11.35	10.95
379621CE	Mean Well	ES25U05-P1J	5	4000	2.1mm x 5.5mm F 2	90-264@47-63	3.1 x 2.1 x 1.3	Black	6'	0.5	UL/CUL/CE	13.29	12.35	11.73	11.15
380322CE	Mean Well	ES25U05-P1M	5	4000	2.5mm x 5.5mm F 2	90-264@47-63	3.1 x 2.1 x 1.3	Black	6'	0.5	UL/CUL/CE	13.29	12.35	11.73	11.15
380007CE	Mean Well	ES25U07-P1J	7.5	2930	2.1mm x 5.5mm F 2	90-264@47-63	3.1 x 2.1 x 1.3	Black	6'	0.5	UL/CUL/CE	13.29	12.35	11.73	11.15
380331CE	Mean Well	ES25U07-P1M	7.5	2930	2.5mm x 5.5mm F 2	90-264@47-63	3.1 x 2.1 x 1.3	Black	6'	0.5	UL/CUL/CE	13.29	12.35	11.73	11.15
228890CE	Phihong	PSC10A-090S	9	1100	2.1mm x 5.5mm F 2	90-132@57-63	2.9 x 1.9 x 1.4	Black	6'	0.4	UL/CUL	12.79	11.99	10.99	10.49
228945CE	Phihong	PSC15A-090	9	1600	2.1mm x 5.5mm F 2	90-132@57-63	2.9 x 1.9 x 1.4	Black	6'	0.4	UL/CUL	13.55	12.29	11.35	10.95
319898CE	Mean Well	ES18U09-PJ	9	2000	2.1mm x 5.5mm F 2	90-264@47-63	3.1 x 2.1 x 1.3	Black	6'	0.5	UL/CUL/CE	12.29	11.35	10.62	9.89
380138CE	Mean Well	ES25U09-P1J	9	2780	2.1mm x 5.5mm F 2	90-264@47-63	3.1 x 2.1 x 1.3	Black	6'	0.5	UL/CUL/CE	13.29	12.35	11.73	11.15
380349CE	Mean Well	ES25U09-P1M	9	2780	2.5mm x 5.5mm F 2	90-264@47-63	3.1 x 2.1 x 1.3	Black	6'	0.5	UL/CUL/CE	13.29	12.35	11.73	11.15
229753CE	Phihong	PSC10A-120S	12	830	2.1mm x 5.5mm F 2	90-132@ 57-63	2.9 x 1.9 x 1.4	Black	6'	0.4	UL/CUL	12.95	11.89	10.99	10.59
228953CE	Phihong	PSC15A-120	12	1250	2.1mm x 5.5mm F 2	90-132@57-63	2.9 x 1.9 x 1.4	Black	6'	0.4	UL/CUL	13.55	12.29	11.35	10.95
312864CE	Mean Well	ES18U12-P1J	12	1500	2.1mm x 5.5mm F 2	100-240@50-60	3.2 x 2.1 x 1.3	Black	6'	0.2	UL/CUL/CE	12.29	11.35	10.62	9.89
380154CE	Mean Well	ES25U12-P1J	12	2080	2.1mm x 5.5mm F 2	90-264@47-63	3.1 x 2.1 x 1.3	Black	6'	0.5	UL/CUL/CE	13.29	12.35	11.73	11.15
380357CE	Mean Well	ES25U12-P1M	12	2080	2.5mm x 5.5mm F 2	90-264@47-63	3.1 x 2.1 x 1.3	Black	6'	0.5	UL/CUL/CE	13.29	12.35	11.73	11.15
319919CE	Mean Well	ES18U15-PJ	15	1200	2.1mm x 5.5mm F 2	90-264@47-63	3.1 x 2.1 x 1.3	Black	6'	0.5	UL/CUL/CE	12.29	11.35	10.62	9.25
380171CE	Mean Well	ES25U15-P1J	15	1670	2.1mm x 5.5mm F 2	90-264@47-63	3.1 x 2.1 x 1.3	Black	6'	0.5	UL/CUL/CE	13.29	12.35	11.73	11.15
380365CE	Mean Well	ES25U15-P1M	15	1670	2.5mm x 5.5mm F 2	90-264@47-63	3.1 x 2.1 x 1.3	Black	6'	0.5	UL/CUL/CE	13.29	12.35	11.73	11.15
380189CE	Mean Well	ES25U18-P1J	18	1390	2.1mm x 5.5mm F 2	90-264@47-63	3.1 x 2.1 x 1.3	Black	6'	0.5	UL/CUL/CE	13.29	12.35	11.73	11.15
380373CE	Mean Well	ES25U18-P1M	18	1390	2.5mm x 5.5mm F 2	90-264@47-63	3.1 x 2.1 x 1.3	Black	6'	0.5	UL/CUL/CE	13.29	12.35	11.73	11.15
228970CE	Phihong	PSC15A-240	24	620	2.1mm x 5.5mm F 2	90-132@57-63	2.9 x 1.9 x 1.4	Black	6'	0.4	UL/CUL	13.55	12.29	11.35	10.95
319927CE	Mean Well	ES18U24-PJ	24	750	2.1mm x 5.5mm F 2	90-264@47-63	3.1 x 2.1 x 1.3	Black	6'	0.5	UL/CUL/CE	12.29	11.35	10.62	9.25
380200CE	Mean Well	ES25U24-P1J	24	1040	2.1mm x 5.5mm F 2	90-264@47-63	3.1 x 2.1 x 1.3	Black	6'	0.5	UL/CUL/CE	13.29	12.35	11.73	11.15
380390CE	Mean Well	ES25U24-P1M	24	1040	2.5mm x 5.5mm F 2	90-264@47-63	3.1 x 2.1 x 1.3	Black	6'	0.5	UL/CUL/CE	13.29	12.35	11.73	11.15
380218CE	Mean Well	ES25U28-P1J	28	890	2.1mm x 5.5mm F 2	90-264@47-63	3.1 x 2.1 x 1.3	Black	6'	0.5	UL/CUL/CE	13.29	12.35	11.73	11.15
380402CE	Mean Well	ES25U28-P1M	28	890	2.5mm x 5.5mm F 2	90-264@47-63	3.1 x 2.1 x 1.3	Black	6'	0.5	UL/CUL/CE	13.29	12.35	11.73	11.15
380234CE	Mean Well	ES25U36-P1J	36	690	2.1mm x 5.5mm F 2	90-264@47-63	3.1 x 2.1 x 1.3	Black	6'	0.5	UL/CUL/CE	13.29	12.35	11.73	11.15
380411CE	Mean Well	ES25U36-P1M	36	690	2.5mm x 5.5mm F 2	90-264@47-63	3.1 x 2.1 x 1.3	Black	6'	0.5	UL/CUL/CE	13.29	12.35	11.73	11.15
380242CE	Mean Well	ES25U48-P1J	48	520	2.1mm x 5.5mm F 2	90-264@47-63	3.1 x 2.1 x 1.3	Black	6'	0.5	UL/CUL/CE	13.29	12.35	11.73	11.15
380445CE	Mean Well	ES25U48-P1M	48	520	2.5mm x 5.5mm F 2	90-264@47-63	3.1 x 2.1 x 1.3	Black	6'	0.5	UL/CUL/CE	13.29	12.35	11.73	11.15
Other Manufacturers — Great Deals												Quantity SAVE			
225995CE	Delta Electronics	ADP-5DB	5	1000	2.5mm x 5.5mm F 2	100-120@50-60	2.5 x 1.8 x 1.1	Black	6'	0.2	UL	\$10.95	\$9.85	\$7.89	\$5.89
308048CE	Potrans	UWP010210500	5	1500	2.1mm x 5.5mm right angle F 2	100-240@60	2.8 x 1.4 x 2.1	Black	10'2"	0.5	UL/CUL	11.75	9.88	9.51	8.55
216442CE	AK II Power Supply	A05C1-05MP	5	1600	2.5mm x 5.5mm F 2	100-240@50-60	2.2 x 1.8 x 1.1	Black	6'	0.4	UL/CUL/CE	12.95	11.65	10.49	9.49
308689CE	Fairway Elec.	WN10A-050	5	2000	2.5mm x 5.5mm F 2	100-240@50-60	3.0 x 2.0 x 1.2	Black	6'	0.4	UL/CUL/TUV/CE	11.39	10.45	9.98	9.50
189190CE	Interex	EPA101MU-05B	5	2000	2.5mm x 5.5mm F 1	100-240@50-60	3.2 x 2.8 x 1.3	Black	6'	0.4	UL/CUL	12.49	11.24	8.99	6.74
210892CE	—	EPA101MU	5	2000	2.5mm x 5.5mm F 2	100-240@50-60	3.2 x 2.4 x 1.3	Black	6'	0.4	UL/CUL	12.95	11.66	9.32	6.99
248743CE	MEI	EPA-101M-05A	5	2500	2.1mm x 5.5mm F 2	120@60	3.2 x 2.4 x 1.4	Black	6'	0.5	UL/CUL	13.49	12.14	9.71	7.28
305066CE	Ault	SC102TA0503B01	5	3000	2.5mm x 5.5mm F 2	100-240@47-63	2.9 x 2.0 x 1.6	Black	6'	0.5	UL/CUL	11.65	10.76	9.59	7.19
308671CE	Highpower	HPW-1009U	9	1110	2.1mm x 5.5mm F 2	100-240@50-60	3.0 x 2.0 x 1.2	Black	6'	0.3	UL/CUL/TUV/CE	11.89	10.97	10.24	9.50
249324CE	Philips	A600M101	12	500	2.1mm x 5.5mm F 2	100-240@50-60	2.4 x 1.8 x 1.0	Black	6'	0.4	UL/CSA	13.19	11.89	9.49	7.15
298054CE	DVE	DSA-009-12A	12	750	2.1mm x 5.5mm F 2	90-132@47-63	2.7 x 1.1 x 1.8	Black	6'	0.3	UL/CUL	11.89	10.70	8.56	6.42
235096CE	DVE	DSA-0151A-12S	12	1250	2.1mm x 5.5mm F 2	100-120@50-60	3.2 x 2.1 x 1.4	Black	6'	0.3	UL/CUL	13.49	12.14	9.71	7.28
320311CE	Gilat	E040105E	24	1670	2.1mm x 5.5mm F 2	100-240@50-60	3.9 x 2.4 x 1.6	Black	6'	0.7	UL/CUL	14.95	12.95	10.95	9.95

† 3-wire AC input

▲ Brand and product number may vary except for ReliaPro, Mean Well, Phihong and GlobTek

AC-to-DC Wall Adapters continued on pages 197 - 199

Save Big! Special Values!

New Lower Prices = Orange
Sale Priced Items = Yellow
Exceptional Quantity Discounts = Green

2-Wire AC Input – AC-to-DC Regulated Linear Wall Adapters

We specialize in Wall Adapters – Call for additional OEM PRICING.
We will change any power plug (pg 136) on any DC wall adapter listed (100 pc. minimum).

• One-year warranty

Polarity 1 (center negative) Polarity 2 (center positive)



Female



236435CE



228726CE

Part Number	Brand ▲	Cross Ref. Number ▲	Output Rating		Output Connector ID x OD/Polarity F = female; M = male	Input VAC @ Hz	Size H" x W" x D"	Case Color	Output Cord Length	Weight (lbs.)	Agency Approvals	Pricing			
			Voltage (VDC)	Current (mA)								1	10	50	100
164101CE	ReliaPro	RDU050050	5	500	2.1mm x 5.5mm F 2	120@60	2.8 x 2.0 x 1.6	Black	6'	0.6	UL/CSA	\$10.95	\$9.86	\$8.87	\$7.98
220935CE	ReliaPro	DDU050060	5	600	2.1mm x 5.5mm F 1	120@60	2.7 x 2.2 x 1.9	Black	6'	0.8	UL/CUL	12.29	11.06	8.85	6.64
196411CE	ReliaPro	DDU050100	5	1000	2.1mm x 5.5mm F 2	120@60	3.3 x 2.2 x 1.9	Ivory	6'	1.0	UL/CUL	12.05	10.84	9.76	8.78
168605CE	ReliaPro	DBU050100	5	1000	2.5mm x 5.5mm F 2	120@60	3.3 x 2.2 x 1.9	Black	6'	1.2	UL/CSA	12.55	11.54	10.62	9.12
190512CE	ReliaPro	DBU60020-H3570	6	200	2.1mm x 5.5mm F 2	120@60	2.2 x 1.7 x 1.5	Black	6'	0.4	UL/CUL	7.65	6.89	5.98	4.47
220898CE	ReliaPro	DCU120020	12	200	2.1mm x 5.5mm F 1	120@60	2.5 x 2.0 x 1.7	Black	6'	0.5	UL/CUL	8.65	7.77	6.22	4.66
162996CE	ReliaPro	DDU120050	12	500	2.1mm x 5.5mm F 2	120@60	3.2 x 2.2 x 1.9	Black	6'	0.9	UL/CUL	10.95	9.86	8.87	7.98
170245CE	ReliaPro	RDU120100	12	1000	2.1mm x 5.5mm F 2	120@60	3.2 x 2.3 x 2.0	Black	6'	1.2	UL/CUL	15.35	13.82	11.05	8.29
174861CE	ReliaPro	DFU240050	24	500	2.1mm x 5.5mm F 2	120@60	3.4 x 2.7 x 2.2	Black	6'	1.3	UL/CUL	13.15	11.87	10.65	9.62
174879CE	ReliaPro	RFU240050	24	500	2.5mm x 5.5mm F 2	120@60	3.4 x 2.7 x 2.2	Black	6'	1.3	UL/CUL	13.15	11.87	10.65	9.62

Other Manufacturers — Great Deals

Quantity SAVE

236435CE	APX	AP2814	5	300	1.3mm x 3.5mm right angle F 2	120@60	2.9 x 1.9 x 1.6	Black	6'	0.6	UL/CSA	\$6.49	\$5.84	\$4.67	\$3.50
319847CE	—	DV-530R	5	300	2.5mm x 5.5mm F 2	120@60	2.4 x 2.0 x 1.6	Black	6'	0.5	UL/CSA	7.15	6.45	5.79	4.81
289182CE	AESP	AD-5600RDU	5	600	2.1mm x 5.5mm F 2	120@60	3.1 x 2.8 x 1.9	Black	6'	0.9	UL/CUL	10.49	9.45	7.55	5.65
319986CE	—	DV-580R	5	800	2.5mm x 5.5mm F 2	120@60	3.2 x 2.2 x 2.0	Black	6'	1.0	UL/CUL	9.95	8.95	8.05	7.25
425519CE	Condor	DV-51AR	5	1000	2.1mm x 5.5mm F 2	120@60	3.2 x 2.2 x 2.0	Black	6'	1.2	UL/CUL	10.69	9.87	9.51	8.55
401251CE	—	AD-51000RDU	5	1000	1.3mm x 3.5mm F 2	120@60	3.1 x 2.3 x 1.9	Black	6'	1.0	UL/CUL	10.95	9.85	8.87	7.98
297941CE	—	JOD-480-08	5	1000	2.5mm x 5.5mm F 2	120@60	3.1 x 2.3 x 1.9	Black	6'	0.9	UL	10.99	9.24	8.90	8.00
228726CE	ORB	777-052000S-UF	5	2000	2.1mm x 5.5mm F 2	100@60	3.1 x 2.1 x 1.5	Black	5'	0.5	UL/CUL	12.95	11.66	10.49	9.44
283573CE	—	DC60050	6	500	2.1mm x 5.5mm F 2	120@60	3.1 x 2.0 x 1.7	Black	6'	0.6	UL/CSA	7.85	7.06	5.65	4.24
190529CE	NOMA	AD9123	9	250	2.5mm x 5.5mm right angle F 2	120@60	2.5 x 2.0 x 1.6	Black	12'	0.5	UL/CSA	7.15	6.44	5.12	3.85

▲ Brand and cross reference number may vary except for ReliaPro, Mean Well, Pihong and Globtek

2-Wire AC Input – AC-to-DC Unregulated Wall Adapters

We specialize in Wall Adapters – Call for additional OEM PRICING.
We will change any power plug (pg 136) on any DC wall adapter listed (100 pc. minimum).

• Input: 120VAC @ 60Hz

• One-year warranty



280250CE

Polarity 1 (center negative) Female Male Stripped Polarity 2 (center positive)

Part Number	Brand ▲	Cross Ref. Number ▲	Output Rating		Output Connector ID x OD/Polarity F = female; M = male	Size H" x W" x D"	Case Color	Output Cord Length	Weight (lbs.)	Agency Approvals	Pricing			
			Voltage (VDC)	Current (mA)							1	10	50	100
112070CE	ReliaPro	DBU050022	5	225	2.5mm x 5.5mm F 2	1.9 x 2.2 x 2.0	Black	7'	0.3	UL/CSA	\$8.05	\$7.25	\$6.52	\$5.87
155601CE	ReliaPro	DCU050100	5	1000	2.1mm x 5.5mm F 2	2.6 x 2.0 x 1.7	Black	6'	0.7	UL/CSA	5.19	4.67	4.20	3.50
119255CE	ReliaPro	DBU060050	6	500	2.1mm x 5.5mm F 1	2.3 x 1.8 x 1.8	Black	6'	0.6	UL/CUL	4.75	4.28	3.85	3.46
101266CE	ReliaPro	DBU060050	6	500	2.1mm x 5.5mm F 2	2.4 x 1.9 x 1.6	Black	6'	0.4	UL/CSA	4.59	4.28	3.42	2.57
15544CE	ReliaPro	DBU060050	6	500	3.5mm M 2	2.4 x 1.9 x 1.6	Black	6'	0.4	UL/CSA	4.75	4.25	3.82	3.44
147707CE	ReliaPro	DBU060080	6	800	2.1mm x 5.5mm F 2	2.3 x 2.0 x 1.6	Black	6'	0.6	UL/CSA	5.45	4.94	4.46	4.02
220943CE	ReliaPro	DCU060120	6	1200	2.1mm x 5.5mm F 1	2.5 x 2.0 x 1.7	Black	6'	0.7	UL/CUL	7.15	6.42	5.14	3.85
220951CE	ReliaPro	DCU075100	7.5	1000	2.1mm x 5.5mm F 1	2.5 x 2.0 x 1.7	Black	6'	0.6	UL/CUL	10.09	9.09	7.28	5.46
280250CE	ReliaPro	DDU075110	7.5	1100	2.1mm x 5.5mm F 2	2.9 x 2.3 x 1.9	Black	6'	0.9	UL/CUL	6.95	5.49	4.73	4.61
127511CE	ReliaPro	DDU080100	8	1000	2.1mm x 5.5mm F 2	3.1 x 2.5 x 2.1	Black	6'	1.3	UL	8.75	7.88	7.09	6.38

Other Manufacturers — Great Deals

Quantity SAVE

237227CE	Freeplay	DX351307	4.5	100	1.3mm x 3.5mm F 2	2.4 x 1.7 x 1.4	Black	6'	0.4	UL/CSA	\$4.49	\$4.04	\$3.23	\$2.42
243070CE	Regal	WH045300-10N	4.5	300	2.1mm x 5.5mm F 1	2.2 x 1.7 x 1.5	Black	6'	0.4	UL/CSA	2.95	2.66	2.12	1.59
320303CE	Globtek	WRIA1000CCP-N	5	1000	2.1mm x 5.5mm F 2	3.2 x 2.3 x 1.9	Black	6'	1.0	UL/CUL	10.95	9.89	8.89	7.99
219651CE	—	FE4823-050E120	5	1200	2.5mm x 5.5mm F 2	3.5 x 2.4 x 1.9	Black	6'	1.2	UL/CUL	5.15	4.76	3.81	2.86
308697CE	Both Hand	MI-10505	5	2000	2.1mm x 5.5mm F 2	2.2 x 1.9 x 1.0	Black	6'	0.3	UL/CUL	10.65	9.95	7.67	5.75
237251CE	Freeplay	DPX350817	6	100	2.1mm x 5.5mm F 2	2.4 x 1.7 x 1.4	Black	6'	0.4	UL/CSA	3.95	3.59	2.85	2.15
243117CE	Regal	WH060200-10N	6	200	2.5mm x 5.5mm F 1	2.2 x 1.7 x 1.5	Black	6'	0.4	UL/CSA	3.95	3.59	2.85	2.15
302439CE	—	AD-0630M	6	300	2.1mm x 5.5mm F 2	2.2 x 1.7 x 1.5	Black	6'	0.4	UL/CSA	3.99	3.59	2.87	2.15
201451CE	APX Technologies	AP4733	6	700	2.1mm x 5.5mm F 2	2.6 x 1.9 x 1.4	Black	6'	0.5	UL/CUL	4.95	4.46	3.56	2.67
227951CE	—	JOD-48U-33	6	2100	2.1mm x 5.5mm F 2	3.3 x 2.2 x 1.9	Black	6'	1.3	UL/CUL	7.95	7.16	5.72	4.29
248751CE	Uniq	AD-071A	7.5	1000	2.5mm x 5.5mm F 2	2.3 x 2.3 x 1.9	Black	6'	0.9	UL/CSA	6.49	5.85	4.69	3.50
249279CE	AESP	FO-AC-4305	7.5	1000	2.1mm x 5.5mm right angle F 2	3.2 x 2.0 x 1.7	Black	6'	0.8	UL/CUL	6.95	6.25	5.65	5.09
230623CE	—	MKD-48752100	7.5	2100	2.1mm x 5.5mm F 2	3.3 x 2.2 x 1.9	Black	6'	1.3	UL/CUL	7.95	7.15	5.75	4.29

▲ Brand and cross reference number may vary except for ReliaPro, Mean Well, Pihong and Globtek

More AC-to-DC Wall Adapters listed on pages 196 & 198 – 199

AC-to-DC Unregulated Wall Adapters (Con't)

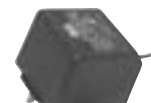


219601CE



We specialize in Wall Adapters – Call for additional OEM PRICING.
We will change any power plug (pg 136) on any DC wall adapter listed (100 pc. minimum).

• Input: 120VAC @ 60Hz • One-year warranty



227774CE



213559CE

Color Code Legend			
New	Sale	Lower\$	QtySave

Polarity 1 (center negative) Female Male Stripped Polarity 2 (center positive)

Quantity SAVE

Part Number	Brand ▲	Cross Ref. Number ▲	Output Rating		Output Connector ID x OD/Polarity F = female; M = male	Size H" x W" x D"	Case Color	Output Cord Length	Weight (lbs.)	Agency Approvals	Pricing			
			Voltage (VDC)	Current (mA)							1	10	50	100
100845CE	ReliaPro	DBU090020	9	200	2.1mm x 5.5mm F 2	2.1 x 1.7 x 1.5	Black	6'	0.4	UL/CSA	\$4.35	\$3.95	\$3.18	\$2.37
134025CE	ReliaPro	DBU090020	9	200	2.1mm x 5.5mm F 1	2.1 x 1.7 x 1.6	Black	6'	0.4	UL/CSA	5.45	4.90	3.92	2.94
100837CE	ReliaPro	DBU090020	9	200	3.5mm M 2	2.6 x 1.8 x 1.6	Black	6'	0.4	UL/CSA	4.35	3.95	3.58	3.25
133891CE	ReliaPro	DBU090030	9	300	2.1mm x 5.5mm F 2	2.0 x 1.5 x 1.5	Black	6'	0.4	UL/CSA	4.35	3.91	3.12	2.34
189238CE	ReliaPro	DBU090030	9	300	2.5mm x 5.5mm F 2	2.2 x 1.7 x 1.5	Black	6'	0.4	UL/CUL	4.79	4.31	3.45	2.59
318676CE	ReliaPro	DBU090030	9	300	2.5mm x 5.5mm F 1	2.2 x 1.7 x 1.5	Black	6'	0.4	UL/CUL	4.29	3.83	3.37	3.20
202155CE	ReliaPro	DBU090035	9	350	2.1mm x 5.5mm F 2	2.2 x 1.7 x 1.5	Black	6'	0.3	UL/CUL	3.65	3.26	2.93	2.64
140636CE	ReliaPro	DCU090040	9	400	2.5mm x 5.5mm F 2	2.6 x 2.0 x 2.0	Black	6'	0.6	UL/CSA	4.59	4.17	3.73	3.36
202171CE	ReliaPro	DCU090045	9	450	2.1mm x 5.5mm F 2	3.3 x 2.9 x 2.3	Black	6'	0.5	UL/CUL	4.35	3.91	3.13	2.35
163627CE	ReliaPro	DCU090050	9	500	2.1mm x 5.5mm F 1	2.5 x 1.9 x 1.7	Black	6'	0.6	UL/CSA	6.05	5.44	4.90	4.35
100853CE	ReliaPro	DCU090050	9	500	2.1mm x 5.5mm F 2	2.5 x 1.9 x 1.7	Black	6'	0.6	UL/CSA	5.45	4.90	4.41	3.97
147731CE	ReliaPro	AD-11950	9	500	2.1mm x 5.5mm F 2	2.6 x 2.0 x 1.7	Beige	6'	0.6	UL/CSA	3.79	3.45	3.39	3.29
236937CE	ReliaPro	DCU090050A	9	500	2.5mm x 5.5mm right angle F 2	2.5 x 2.0 x 1.7	Black	6'	0.4	UL/CSA	6.35	5.72	5.14	4.63
15561CE	ReliaPro	DCU090050	9	500	3.5mm M 2	2.5 x 2.0 x 1.6	Black	6'	0.5	UL/CSA	5.35	4.81	4.33	3.90
202180CE	ReliaPro	DCU090060	9	600	2.1mm x 5.5mm F 2	3.3 x 2.9 x 2.3	Black	6'	0.6	UL/CUL	5.39	4.83	4.35	3.68
100175CE	ReliaPro	DCU090060	9	600	2.5mm x 5.5mm F 2	2.7 x 2.0 x 1.7	Black	6'	0.6	UL/CSA	6.05	5.22	4.68	4.35
202198CE	ReliaPro	DCU090080	9	800	2.1mm x 5.5mm F 2	3.3 x 2.9 x 2.3	Black	6'	0.6	UL/CUL	7.65	6.89	6.20	5.58
364576CE	ReliaPro	DDU090100J0490	9	1000	2.1mm x 5.5mm F 2	2.9 x 2.3 x 1.9	Black	6'	0.9	UL/CUL	8.75	7.87	6.98	6.06
127504CE	ReliaPro	DC910F5-VP	9	1000	2.5mm x 5.5mm F 2	2.6 x 2.4 x 2.0	Black	6'	0.9	UL/CSA	8.25	7.42	6.68	5.55
15587CE	ReliaPro	DDU090100	9	1000	3.5mm M 2	2.6 x 2.4 x 2.0	Black	6'	0.9	UL/CSA	8.75	7.88	6.30	4.73
130526CE	ReliaPro	DDE090120	9	1200	2.1mm x 5.5mm F 1	2.4 x 2.0 x 1.8	Black	6'	1.0	UL/CSA	9.85	8.86	7.08	5.31
143693CE	ReliaPro	DFU0901500A3040	9	1500	2.1mm x 5.5mm F 2	3.3 x 2.5 x 2.3	Black	6'	1.3	UL/CSA	10.95	9.86	7.65	5.70
163993CE	ReliaPro	DBU120020	12	200	2.1mm x 5.5mm right angle F 1	2.4 x 1.7 x 1.6	Black	6'	0.4	UL/CSA	5.25	4.73	4.25	3.83
100095CE	ReliaPro	DBU120020	12	200	2.1mm x 5.5mm F 2	2.1 x 1.8 x 1.5	Black	6'	0.4	UL/CSA	4.35	3.92	3.12	2.34
158043CE	ReliaPro	DBU120020	12	200	2.1mm x 5.5mm right angle F 2	2.2 x 1.7 x 1.5	Black	6'	0.4	UL/CSA	4.95	4.46	4.01	3.61
220433CE	ReliaPro	DBU120020	12	200	2.5mm x 5.5mm right angle F 2	2.2 x 1.7 x 1.5	Lt. Gray	6'	0.4	UL/CSA	4.85	4.35	3.91	3.52
185658CE	ReliaPro	DBU120020	12	200	2.5mm x 5.5mm right angle F 2	2.2 x 1.7 x 1.5	Black	6'	0.4	UL/CSA	5.29	4.74	3.79	2.85
219601CE	ReliaPro	DCU120025	12	250	Stripped & tinned	2.5 x 2.0 x 1.7	Dk. Gray	6'	0.4	UL/CUL	4.35	3.91	3.12	2.34
318692CE	ReliaPro	DBU120030	12	300	1.3mm x 3.5mm right angle F 2	2.2 x 1.7 x 1.5	Black	6'	0.4	UL/CSA	4.59	3.73	3.29	2.52
127976CE	ReliaPro	DCU120030	12	300	2.1mm x 5.5mm F 2	2.6 x 1.8 x 1.6	Black	6'	0.7	UL/CSA	5.25	4.73	3.78	2.84
249236CE	ReliaPro	DBU120030	12	300	2.5mm x 5.5mm right angle F 2	2.2 x 1.7 x 1.5	Black	6'	0.5	UL/CUL	5.35	4.23	3.73	3.40
190502CE	ReliaPro	ADA-410	12	400	2.1mm x 5.5mm right angle F 2	2.6 x 2.1 x 1.9	Black	6'	0.5	UL/CUL	7.35	6.62	5.30	4.00
114825CE	ReliaPro	DCU120050	12	500	Connector end may vary	2.5 x 2.0 x 1.7	Black	6'	0.6	UL/CUL	5.25	4.78	3.80	2.85
15368CE	ReliaPro	DCU120050	12	500	2.1mm x 5.5mm F 1	2.5 x 1.9 x 1.6	Black	6'	0.6	UL/CSA	7.15	6.44	5.79	5.21
102496CE	ReliaPro	DCU120050	12	500	2.1mm x 5.5mm F 2	2.5 x 1.9 x 1.6	Black	6'	0.6	UL/CSA	5.79	4.58	4.00	3.81
131300CE	ReliaPro	DCU120050	12	500	2.1mm x 5.5mm right angle F 2	2.6 x 1.9 x 1.7	Beige	6'	0.6	UL/CSA	6.05	5.44	4.90	4.41
102277CE	ReliaPro	DCU120050U	12	500	2.5mm x 5.5mm F 2	2.5 x 2.1 x 1.7	Black	6'	0.6	UL/CSA	5.69	5.12	4.61	4.15
17267CE	ReliaPro	DCU120050	12	500	3.5mm M 2	2.5 x 1.9 x 1.6	Black	6'	0.6	UL/CSA	5.69	5.12	4.61	4.15
202201CE	ReliaPro	DCU120060	12	600	2.1mm x 5.5mm F 2	3.3 x 2.9 x 2.3	Black	6'	0.6	UL/CUL	5.45	4.90	3.91	2.96
202219CE	ReliaPro	DCU120070	12	700	2.1mm x 5.5mm F 2	3.3 x 2.9 x 2.3	Black	6'	0.6	UL/CUL	5.69	5.14	4.11	3.08

Other Manufacturers — Great Deals

308056CE	—	A40910M	8.7	1000	2.1mm x 5.5mm F 2	2.6 x 2.4 x 2.0	Black	6'	1.0	UL/CSA	\$7.95	\$7.15	\$6.45	\$5.35
265480CE	Uniden	AD-600B	9	100	2.1mm x 5.5mm right angle F 2	2.1 x 1.4 x 1.4	Black	6'	0.3	UL/CSA	3.49	3.14	2.51	1.88
265498CE	Uniden	AD-600W	9	100	2.1mm x 5.5mm right angle F 2	2.1 x 1.4 x 1.4	White	6'	0.3	UL/CSA	3.49	3.14	2.51	1.88
355936CE	—	35-9-200C	9	200	1.3mm x 3.5mm F 2	2.5 x 1.7 x 1.5	Black	6'	0.4	UL/CSA	3.79	3.07	2.72	2.59
237243CE	Freeplay	DPX351322	9	200	2.1mm x 5.5mm F 2	2.4 x 1.7 x 1.4	Black	6'	0.4	UL/CSA	3.79	3.45	3.15	2.79
400899CE	WABI	LF09250D-08	9	250	2.5mm x 5.5mm F 2	2.2 x 1.7 x 1.5	Black	6'	0.4	UL/CUL	4.09	3.27	2.86	2.72
191767CE	—	CTPS350903002C0	9	300	1.3mm x 3.5mm right angle F 2	2.3 x 1.8 x 1.5	Black	6'	0.4	UL/CSA	4.19	3.77	3.02	2.26
189237CE	ACI World	35-9-300C	9	300	2.5mm x 5.5mm F 2	2.2 x 1.7 x 1.4	Black	6'	0.4	UL/CSA	4.65	3.57	3.24	2.58
169519CE	Panasonic	KX-TCA1	9	350	2.1mm x 5.5mm right angle F 1	2.7 x 1.7 x 1.6	Dk. Gray	6'	0.4	UL/CSA	3.85	3.45	2.76	2.07
319177CE	Explore Tech.	41-9-5000	9	500	2.1mm x 5.5mm F 2	2.5 x 2.0 x 1.6	Black	6'	0.6	UL/CSA	3.59	3.23	2.58	1.94
170270CE	Panasonic	POLV1	9	500	2.1mm x 5.5mm right angle F 1	2.7 x 1.9 x 1.8	Gray	6'	0.6	UL/CSA	4.95	4.46	3.56	2.67
421577CE	Powerline	0900-12	9	850	2.5mm x 5.5mm F 2	2.7 x 2.1 x 1.7	Black	6'	0.8	UL/CSA	7.35	6.63	5.86	5.56
164929CE	—	DDU090100	9	900	2.1mm x 5.5mm F 1	2.7 x 2.3 x 1.8	Black	6'	0.9	UL/CUL	8.75	7.86	6.33	4.72
227774CE	GTE	ADP2108GT	9	1000	2.1mm x 5.5mm right angle F 2	3.5 x 2.2 x 1.9	Black	6'	0.9	UL/CUL	7.95	7.15	5.75	4.29
421690CE	Fisher-Price	SA48-29A	9	1000	2.1mm x 5.5mm F 2	3.1 x 2.2 x 1.8	Black	6'	1.1	UL/CSA	7.15	5.68	4.97	4.71
285958CE	API	AP2072P	9	1000	2.1mm x 5.5mm right angle F 2	2.5 x 2.3 x 1.9	Black	6'	0.9	UL/CUL	6.95	6.25	4.99	3.75
421649CE	Unifive	US100913	9	1300	2.5mm x 5.5mm F 2	2.4 x 1.7 x 1.2	Black	6'	0.2	UL/CUL	11.89	10.97	10.42	9.50
237067CE	APS	D9-15-950	9	1500	2.5mm x 5.5mm F 2	3.1 x 2.3 x 1.9	Black	6'	1.3	UL/CUL	9.95	8.96	7.16	5.37
355602CE	Southwestern Bell	U120020D	12	200	2.1mm x 5.5mm F 2	2.2 x 1.6 x 1.4	Black	6'	0.3	UL/CUL	3.89	3.50	2.80	2.10
211238CE	Quotrek	35D-12-250	12	250	2.5mm right angle M 2	2.2 x 1.7 x 1.5	Black	6'	0.4	UL/CSA	3.95	3.55	2.89	2.15
201099CE	—	SPN4230A	12	300	1.3mm x 3.5mm right angle F 2	2.3 x 2.0 x 1.7	Black	6'	0.5	UL/CSA	4.99	4.49	3.59	2.69
355590CE	Southwestern Bell	PS-400	12	400	2.1mm x 5.5mm F 2	2.4 x 1.9 x 1.6	Black	6'	0.6	UL/CSA	4.99	4.14	3.95	3.62

▲ Brand and cross reference number may vary except for ReliaPro, Mean Well, Pihong and Globtek

More AC-to-DC Wall Adapters listed on pages 196 – 197 & 199

We specialize in Wall Adapters – Call for additional OEM PRICING.
We will change any power plug (pg 136) on any DC wall adapter listed (100 pc. minimum).
• Input: 120VAC @ 60Hz • One-year warranty



Quantity SAVE

Part Number	Brand ▲	Cross Ref. Number ▲	Output Rating		Output Connector ID x OD/Polarity F = female; M = male	Size H" x W" x D"	Case Color	Output Cord Length	Weight (lbs.)	Agency Approvals	Pricing			
			Voltage (VDC)	Curr. (mA)							1	10	50	100
121232CE	ReliaPro	DDU120080	12	800	3.5mm M 2	2.6 x 2.4 x 2.0	Black	6'	0.9	UL/CSA	\$6.79	\$6.13	\$4.91	\$3.67
117479CE	ReliaPro	DDU120080	12	800	2.1mm x 5.5mm F 2	3.0 x 2.3 x 2.0	Black	6'	0.9	UL/CSA	7.65	6.89	6.20	5.58
129331CE	ReliaPro	DDU120080	12	800	2.5mm x 5.5mm F 2	3.0 x 2.3 x 2.0	Black	6'	0.9	UL/CSA	6.05	5.44	4.90	4.46
100870CE	ReliaPro	DDU120100	12	1000	2.1mm x 5.5mm F 2	2.6 x 2.4 x 1.9	Black	6'	0.9	UL/CSA	8.99	8.09	7.28	6.55
105478CE	ReliaPro	DDU120100	12	1000	2.5mm x 5.5mm F 2	3.1 x 2.4 x 2.0	Black	6'	1.0	UL/CSA	8.25	7.42	6.30	4.73
15392CE	ReliaPro	DDU120100	12	1000	3.5mm M 2	3.3 x 2.4 x 2.0	Black	6'	1.0	UL/CSA	8.75	7.88	7.09	6.38
213559CE	ReliaPro	GPC-081	12	1000	Auto lighter power outlet	4.3 x 2.2 x 1.9	Black	—	1.1	UL/CUL	13.95	12.56	10.04	7.53
196779CE	ReliaPro	DDU120120	12	1200	2.5mm x 5.5mm F 2	3.0 x 2.3 x 1.9	Black	6'	1.0	UL/CUL	9.69	8.70	7.81	6.92
203036CE	ReliaPro	DDU120150	12	1500	2.1mm x 5.5mm F 1	3.3 x 2.2 x 1.9	Black	6'	1.5	UL/CUL	14.25	12.82	10.29	7.69
313226CE	ReliaPro	DFU120150	12	1500	Stripped & tinned (w/ on-off switch)	3.4 x 2.6 x 2.2	Black	8'	1.5	UL	11.45	10.40	9.33	8.30
136881CE	ReliaPro	DFU120150	12	1500	2.1mm x 5.5mm F 2	3.4 x 2.7 x 2.2	Black	6'	1.5	UL	14.25	12.82	11.54	10.39
101291CE	ReliaPro	D571201500U	12	1500	2.5mm x 5.5mm F 2	3.4 x 2.7 x 2.2	Black	6'	1.5	UL	11.45	10.30	9.27	8.35
308099CE	ReliaPro	DDU135100	13.5	1000	2.1mm x 5.5mm F 2	2.9 x 2.3 x 1.9	Black	6'	1.0	UL/CUL	8.95	8.09	7.16	6.22
212812CE	ReliaPro	DBU140020	14	200	2.1mm x 5.5mm F 2	2.2 x 1.7 x 1.5	Black	6'	0.8	UL/CUL	3.35	3.07	2.80	2.52
212821CE	ReliaPro	DBU140030	14	300	2.1mm x 5.5mm F 2	2.2 x 1.7 x 1.5	Black	6'	0.8	UL/CUL	4.95	4.45	3.55	2.66
123932CE	ReliaPro	DDU140070	14	700	2.1mm x 5.5mm F 2	2.6 x 2.4 x 2.0	Black	6'	1.0	UL/CSA	9.35	8.41	6.73	5.05
202243CE	ReliaPro	DDU140070	14	700	2.5mm x 5.5mm F 2	3.9 x 2.9 x 2.4	Black	6'	0.8	UL/CUL	7.99	7.18	5.74	4.31
202260CE	ReliaPro	DDU140100	14	1000	2.1mm x 5.5mm F 2	3.9 x 2.9 x 2.4	Black	6'	0.9	UL/CUL	8.75	7.65	6.88	6.15
190001CE	ReliaPro	DCU150050	15	500	2.1mm x 5.5mm F 2	2.3 x 2.4 x 1.9	Black	6'	0.8	UL/CSA	7.15	6.42	5.14	3.85
189982CE	ReliaPro	DCU150050	15	500	2.5mm x 5.5mm F 2	2.3 x 2.4 x 1.9	Black	6'	0.8	UL/CSA	7.65	6.92	5.55	4.17
155803CE	ReliaPro	DDU150060	15	600	2.1mm x 5.5mm F 1	2.9 x 2.3 x 1.9	Black	6'	1.0	UL/CSA	9.85	8.86	7.09	5.31
232258CE	ReliaPro	DDU150080	15	800	2.1mm x 5.5mm F 1	2.9 x 2.3 x 1.9	Black	6'	1.0	UL	9.35	8.41	6.73	5.05
203502CE	ReliaPro	DDU150090	15	900	2.5mm x 5.5mm F 2	2.6 x 2.2 x 1.9	Black	6'	1.0	UL/CSA	7.65	6.89	5.51	4.13
151992CE	ReliaPro	DDU150100	15	1000	2.1mm x 5.5mm F 1	3.1 x 2.0 x 1.9	Beige	6'	1.5	UL/CSA	9.35	8.41	6.72	5.04
191652CE	ReliaPro	DDU150100	15	1000	2.1mm x 5.5mm F 2	3.3 x 2.2 x 1.9	Black	6'	1.0	UL/CSA	10.55	9.50	8.55	7.69
162317CE	ReliaPro	DDU165050	16	500	2.1mm x 5.5mm F 2	2.5 x 2.0 x 1.7	Black	6'	0.8	UL/CSA	8.75	7.65	6.86	6.15
181729CE	ReliaPro	DCU180025	18	250	2.1mm x 5.5mm F 2	2.6 x 2.0 x 1.6	Black	6'	0.6	UL	7.65	6.89	5.50	4.12
163272CE	ReliaPro	DDU180050-2	18	500	2.1mm x 5.5mm F 2	2.6 x 2.3 x 1.9	Black	6'	0.8	UL/CUL	10.95	9.86	8.38	6.28
206958CE	ReliaPro	DDU180100	18	1000	2.5mm x 5.5mm F 2	3.3 x 2.2 x 1.9	Black	6'	1.4	UL/CUL	10.95	9.86	7.91	5.93
102285CE	ReliaPro	DDU240040	24	400	2.1mm x 5.5mm F 2	3.0 x 2.3 x 2.0	Black	6'	0.9	UL/CUL	8.75	7.91	7.09	6.43
163635CE	ReliaPro	DDU240050	24	500	2.1mm x 5.5mm F 1	3.1 x 2.3 x 1.9	Black	6'	1.0	UL/CUL	9.85	8.86	7.08	5.31
191556CE	ReliaPro	DDU240050	24	500	2.5mm x 5.5mm F 2	3.1 x 2.3 x 1.9	Black	6'	1.0	UL/CUL	9.85	8.89	7.98	6.66
139088CE	ReliaPro	DDU240050	24	500	3.5mm M 2	3.1 x 2.3 x 1.9	Black	6'	1.0	UL/CUL	8.75	7.88	6.29	4.72
168495CE	ReliaPro	DFU240080	24	800	2.1mm x 5.5mm F 2	2.9 x 1.9 x 1.6	Black	6'	0.4	UL/CUL/TUV	12.05	10.85	8.67	6.50
220960CE	ReliaPro	DFU240100	24	1000	2.1mm x 5.5mm F 1	3.4 x 2.7 x 2.2	Black	6'	1.6	UL/CUL	15.29	14.25	12.53	11.98
249130CE	ReliaPro	AFU240120/G8530	24	1200	2.1mm x 5.5mm F 1	3.4 x 2.7 x 2.2	Black	6'	1.7	UL/CUL	17.55	16.34	14.40	13.74
249121CE	ReliaPro	DFU240120/G8520	24	1200	2.1mm x 5.5mm F 2	3.4 x 2.7 x 2.2	Black	6'	1.7	UL/CUL	17.55	16.34	14.40	13.74
249113CE	ReliaPro	DFU240120/G8510	24	1200	2.5mm x 5.5mm F 2	3.4 x 2.7 x 2.2	Black	6'	1.7	UL/CUL	17.55	16.34	14.40	13.74
199523CE	ReliaPro	DDU300050	30	500	2.5mm x 5.5mm F 2	2.9 x 2.3 x 1.9	Black	6'	1.1	UL/CUL	10.95	9.86	8.87	7.43
215095CE	ReliaPro	MW48-4800250	48	250	2.5mm x 5.5mm F 2	2.9 x 2.3 x 1.9	Black	6'	1.1	UL/CUL	7.95	7.15	6.49	5.79
230631CE	ReliaPro	MW48-4800250-2.1	48	250	2.1mm x 5.5mm F 2	3.3 x 2.7 x 2.2	Black	6'	1.1	UL/CUL	7.95	7.16	5.72	4.29
215108CE	ReliaPro	MW48-4800500	48	500	2.5mm x 5.5mm F 2	2.9 x 2.3 x 1.9	Black	6'	1.1	UL/CUL	10.95	9.85	8.85	7.95
230640CE	ReliaPro	MW48-4800500-2.1	48	500	2.1mm x 5.5mm F 2	3.3 x 2.7 x 2.2	Black	6'	1.1	UL/CUL	11.95	10.76	8.60	6.45

Other Manufacturers — Great Deals

200125CE	Noostuff Inc.	DV1250	12	500	2.5mm x 5.5mm F 1	2.4 x 2.0 x 1.6	Black	6'	1.0	UL/CSA	\$4.25	\$3.82	\$3.06	\$2.30
305103CE	—	AD1250-5LE	12	500	2.1mm x 5.5mm F 2	2.6 x 1.9 x 1.7	Black	6'	0.6	UL/CSA	4.89	4.40	3.52	2.64
320266CE	CUI	DV-1280	12	800	2.1mm x 5.5mm F 2	2.4 x 2.4 x 2.0	Black	6'	0.8	UL/CSA	6.09	5.49	4.39	4.39
237358CE	QSE	P155-D150567	12	800	2.5mm x 5.5mm F 2	3.0 x 2.3 x 1.9	Black	6'	0.9	UL	5.19	4.69	3.75	2.79
211051CE	Calrad ↑	DV-1280 Dual	12	800	2.5mm x 5.5mm rt angle F 2 w/ input switch	2.6 x 2.4 x 1.9	Black	6'	0.9	None	4.85	4.36	3.49	2.62
240101CE	Broadxent	AD-121AN	12	1000	2.1mm x 5.5mm F 2	2.8 x 2.2 x 1.9	Black	6'	1.0	UL/CSA	6.99	5.99	3.59	2.69
199566CE	Superworld	WK1201A01DN	12	1000	2.5mm x 5.5mm F 2 (w/ RF filter)	3.2 x 2.2 x 2.0	Black	6'	1.2	UL/CSA	6.95	6.26	5.63	5.07
189579CE	Fellowes	BCU12100	12	1000	2.5mm x 5.5mm right angle F 2	3.2 x 2.2 x 1.9	Black	6'	1.0	UL/CSA	8.75	7.91	6.32	4.79
189211CE	ACI World	57-12-1500D	12	1500	8-pin mini DIN M	3.4 x 2.6 x 2.2	Black	3'4"	1.7	UL/CUL	5.45	4.94	3.95	2.96
371987CE	New Star	NS-889	13	1200	2.1mm x 5.5mm F 2	3.6 x 2.4 x 1.9	Black	6'	1.2	UL	6.59	5.30	4.65	4.41
192786CE	—	MK135100	13.5	1000	2.1mm x 5.5mm F 1	2.9 x 2.3 x 2.0	Black	6'	1.0	UL/CSA	3.79	3.43	3.12	2.84
447081CE	Technics	TEAD-48-131000U	13.5	1000	2.1mm x 5.5mm F 2	2.9 x 2.3 x 1.9	Black	6'	1.0	UL/CUL	7.99	7.08	6.28	5.45
129314CE	—	DV-1250	14	360	2.5mm x 5.5mm right angle F 2	2.3 x 2.0 x 1.6	Black	6'	0.6	UL/CSA	5.19	4.67	3.74	2.80
220901CE	Drake	3690454	16	250	Stripped & tinned	2.2 x 2.1 x 1.6	Black	6'	0.8	UL/CSA	3.75	3.38	3.04	2.74
217541CE	NiteRider	FE4116168C030	16.8	300	2.5mm x 5.5mm F 2 w/ LED indicator	3.1 x 2.1 x 1.6	Black	6'	0.6	UL/CUL	4.45	4.00	3.20	2.40
217568CE	NiteRider	FE4126180P040	18	400	2.5mm x 5.5mm F 2 w/ LED indicator	3.5 x 2.1 x 1.6	Black	6'	0.8	UL/CUL	5.49	4.94	3.95	2.96
206957CE	GlobTek	WD1H1000LCX	18	1000	2.5mm x 5.5mm F 2	3.4 x 2.6 x 2.1	Black	6'	1.4	None	9.95	8.96	7.16	5.37
404339CE	Ault	P48240500A020G	24	500	2.1mm x 5.5mm F 2	2.5 x 2.3 x 2.0	Black	6'	0.9	UL/CSA	7.45	5.99	5.24	4.97
196322CE	3Com	P48240600A020G	24	600	2.1mm x 5.5mm F 2	3.3 x 2.3 x 1.9	Black	6'	1.1	UL/CSA	8.95	8.05	6.85	5.15
15309CE	—	900-051	3, 4.5, 6, 7.5, 9, 12	500	1.3 x 3.5, 2.1 x 5.0, 2.5 x 5.5 Female 2.5, 3.5 Male, 9V battery snap (LED ind.)	3.0 x 2.2 x 2.1	Black	6'	0.7	UL/CSA	9.49	8.54	7.69	6.92
123158CE	—	900-100 ↑	1.5, 3, 4.5, 6, 7.5, 9, 12	1000	1.3 x 3.5, 2.1 x 5.0, 2.5 x 5.5 Female 2.5, 3.5 Male, 9V battery snap (LED ind.)	3.7 x 2.2 x 2.5	Black	6'	0.9	—	10.95	9.86	8.87	7.98

↑ 120 to 220VAC

▲ Brand and cross reference number may vary except for ReliaPro, Mean Well, Phihong and Globtek

More AC-to-DC Wall Adapters listed on pages 196 - 198

2-Wire AC Input – AC-to-AC Wall Adapters



Color Code Legend
New Sale Lower\$ QtySave



We specialize in Wall Adapters – Call for additional OEM PRICING.

We will change any power plug (pg 136) on any DC wall adapter listed (100 pc. minimum).



• Input: 120VAC @ 60Hz • One-year warranty



Quantity SAVE

Part Number	Brand ▲	Cross Ref. Number ▲	Output Rating		Output Connector ID x OD Plug Type F = female; M = male	Size H" x W" x D"	Case Color	Output Cord Length	Weight (lbs.)	Agency Approvals	Pricing			
			Voltage (VAC)	Current (mA)							1	10	50	100
249017CE	ReliaPro	ACU070150	7	1500	2.5mm x 5.5mm F	2.5 x 2.0 x 1.7	Black	6'	0.5	UL/CSA	\$5.69	\$5.16	\$4.72	\$3.95
100061CE	ReliaPro	ACU090050	9	500	2.1mm x 5.5mm F	2.7 x 1.9 x 1.7	Black	6'	0.6	UL/CUL	5.05	4.53	3.63	2.73
236814CE	ReliaPro	ACU090080	9	800	3.5mm M	2.5 x 2.0 x 1.7	Black	6'	0.5	UL/CUL	5.45	4.93	4.46	4.02
102234CE	ReliaPro	ACU090100	9	1000	2.1mm x 5.5mm F	3.2 x 2.2 x 1.9	Black	6'	0.6	UL/CSA	6.05	5.44	4.90	4.41
157041CE	ReliaPro	ACU090100	9	1000	2.5mm x 5.5mm F	2.1 x 2.1 x 1.6	Black	6'	0.6	UL/CSA	7.65	6.89	6.20	5.58
112336CE	ReliaPro	ACU090150	9	1500	2.5mm x 5.5mm F	2.5 x 2.2 x 2.0	Black	6'	0.9	UL	10.95	9.86	8.87	7.98
101258CE	ReliaPro	ACU120050	12	500	2.1mm x 5.5mm F	2.5 x 2.0 x 1.7	Black	6'	0.6	UL/CSA	5.05	4.54	3.64	2.73
10081CE	ReliaPro	ACU120100	12	1000	2.1mm x 5.5mm F	2.6 x 2.4 x 2.0	Black	6'	0.7	UL/CSA	5.69	5.14	4.62	4.16
100167CE	ReliaPro	A411201000U	12	1000	2.5mm x 5.5mm F	3.2 x 2.4 x 2.0	Black	6'	0.7	UL/CSA	5.69	5.12	4.61	4.15
10428CE	ReliaPro	ACU120100	12	1000	3.5mm M	2.6 x 2.4 x 2.0	Black	6'	0.6	UL/CUL	5.69	5.14	4.11	3.08
167151CE	ReliaPro	ADU120150	12	1500	2.1mm x 5.5mm F	3.4 x 2.7 x 2.2	Black	6'	1.5	UL/CUL	5.45	4.94	4.39	3.69
307838CE	ReliaPro	ADU120160	12	1600	2.5mm x 5.5mm F	2.9 x 2.3 x 1.9	Black	6'	1.0	UL/CUL	13.95	11.19	9.79	9.30
153761CE	ReliaPro	ADU120160	12	1600	3.5mm M	2.5 x 2.2 x 1.9	Black	6'	0.9	UL	12.05	10.84	9.76	8.78
171408CE	ReliaPro	ACU140050	14	500	2.1mm x 5.5mm F	2.8 x 2.0 x 1.6	Black	6'	0.6	UL/CSA	4.95	4.44	3.55	2.66
318684CE	ReliaPro	ACU140085	14	850	2.5mm x 5.5mm right angle F	2.5 x 2.0 x 1.7	Black	6'	0.6	UL/CUL	11.95	9.00	8.03	6.85
100108CE	ReliaPro	ADU160100	16	1000	2.1mm x 5.5mm F	2.5 x 2.2 x 1.9	Black	6'	0.9	UL/CSA	8.75	7.88	6.30	4.73
163053CE	ReliaPro	ADU160110	16	1100	2.5mm x 5.5mm F	3.2 x 2.3 x 1.8	Black	6'	1.1	UL/CSA	9.85	8.79	7.08	5.31
121216CE	ReliaPro	ADU180100	18	1000	2.1mm x 5.5mm F	3.1 x 2.7 x 1.9	Black	6'	1.1	UL/CUL	9.85	8.86	7.98	6.77
87581CE	ReliaPro	ADU240050	24	500	2.1mm x 5.5mm F	2.5 x 2.2 x 1.9	Black	6'	0.9	UL/CSA	5.69	5.12	4.61	4.15
140599CE	ReliaPro	ADU240100	24	1000	2.1mm x 5.5mm F	3.0 x 2.2 x 1.9	Black	6'	1.2	UL/CSA	9.85	8.90	7.14	5.38
10102CE	ReliaPro	ADU240100	24	1000	3.5mm M	3.0 x 2.2 x 1.9	Black	6'	1.2	UL/CSA	8.75	7.88	6.30	4.73
176356CE	ReliaPro	AFU240125	24	1250	2.1mm x 5.5mm F	3.4 x 2.7 x 2.2	Black	5'8"	1.6	None	11.55	10.40	8.32	6.24
Other Manufacturers — Great Deals														
101127CE	Siemens	DFX10096B	7	1500	2.5mm x 5.5mm F	1.9 x 2.2 x 2.0	Black	7'6"	0.8	UL/CSA	\$5.45	\$4.90	\$3.92	\$2.94
219660CE	Sincore	SLA40810	8	1000	2.1mm x 5.5mm F	2.2 x 2.1 x 1.6	Black	6'	0.7	UL/CSA	1.95	1.76	1.40	1.05
210729CE	ITE Power Supply	MKA35090300	9	300	2.1mm x 5.5mm F	2.2 x 1.7 x 1.5	Black	6'	0.4	UL/CUL	3.95	3.55	2.84	2.13
184751CE	PhoneMate	M/N40	9	450	2.1mm x 5.5mm right angle F	2.8 x 2.0 x 1.7	Black	6'	0.8	UL/CSA	4.59	4.13	3.30	2.48
226131CE	US Robotics	AA0950	9	500	2.5mm x 5.5mm F	2.5 x 2.1 x 1.7	Black	6'	0.5	UL/CSA	4.49	4.04	3.23	2.42
249295CE	Pacrim	41A-9-700	9	700	2.5mm x 5.5mm F	2.3 x 2.0 x 1.7	Black	6'	0.6	UL/CSA	4.49	3.99	3.65	3.29
233293CE	Horizon	ACU090080	9	800	2.1mm x 5.5mm F	2.5 x 2.0 x 1.7	Black	6'	0.6	UL	5.15	4.67	3.73	2.80
355531CE	—	MW41-0901000A	9	1000	2.1mm x 5.5mm F	2.5 x 2.0 x 1.6	Black	6'	0.6	UL/CUL	4.45	4.00	3.20	2.40
320258CE	US Robotics	T48091500A010G	9	1500	2.5mm x 5.5mm F	2.5 x 2.2 x 2.0	Black	6'	0.9	UL/CSA	8.95	8.05	7.25	6.55
217550CE	Frino	FW6798	9	1900	Stripped and tinned	2.8 x 2.5 x 2.0	Black	6'8"	1.1	UL/CSA	8.49	7.64	6.11	4.58
210745CE	Leader Electronics	A4110050T	10	500	2.1mm x 5.5mm F	3.0 x 2.1 x 1.7	Black	6'	0.6	UL/CSA	2.65	2.39	2.19	1.99
265455CE	—	FW6199	12	200	2.1mm x 5.5mm F	2.1 x 1.9 x 1.9	Black	6'7"	0.5	UL	1.95	1.76	1.40	1.05
211271CE	Orig. Elec. Mfg.	AA-1250	12	500	2.5mm x 5.5mm F	2.3 x 2.1 x 1.6	Black	6'	0.6	UL/CSA	4.59	4.13	3.30	2.48
355581CE	Code-A-Phone	DV-1283-2.1	12	830	2.1mm x 5.5mm F	2.3 x 2.0 x 1.6	Black	6'	0.6	UL/CSA	4.99	4.49	3.59	2.69
285069CE	Shogyo	DV-1283	12	830	2.5mm x 5.5mm F	2.8 x 2.0 x 1.6	Black	6'	0.6	UL/CSA	4.95	4.55	4.13	3.70
309884CE	—	AA-121A	12	1000	2.1mm x 5.5mm F	2.5 x 2.0 x 1.7	Black	6'	—	UL/CUL	4.89	4.40	3.52	2.64
206404CE	MG Electronics	MGT1220	12	1670	Screw terminals	3.2 x 2.2 x 1.9	White	—	0.9	UL/CSA	6.95	6.29	5.65	5.09
210737CE	ITE Power Supply	PPI-1212UL	13	1200	2.1mm x 5.5mm F	3.3 x 2.4 x 2.0	Black	6'	0.9	UL/CUL	5.45	4.94	3.95	2.96
421585CE	JBL Inc	A12-1A-01	14	850	2.5mm x 5.5mm F	2.5 x 1.9 x 1.6	White	6'	0.6	UL/CSA	5.55	4.85	4.32	4.03
201101CE	Motorola	SPN4340A	15	200	1.3mm x 3.5mm F	2.2 x 1.8 x 1.5	Black	6'	0.5	UL/CSA	1.69	1.52	1.37	1.23
227791CE	Ault	T41180500A0206	18	500	2.1mm x 5.5mm F	2.6 x 1.9 x 1.7	Black	6'	1.1	None	3.95	3.56	2.84	2.13
185439CE	Ault	T5182200-A020G	18	1850	2.1mm x 5.5mm right angle F	3.3 x 2.7 x 2.2	Black	6'	1.7	None	8.25	7.42	5.94	4.46
308718CE	Comtrend	ACU-190051	19	510	2.5mm x 5.5mm right angle F	2.5 x 2.0 x 1.7	Black	6'	0.6	UL/CUL	5.39	4.85	4.39	3.65
206421CE	MG Electronics	MGT2410	24	420	Screw terminals	2.5 x 2.0 x 1.7	White	—	0.6	UL/CSA	6.49	5.84	5.26	4.73
240119CE	—	FW6798	24	500	2.5mm x 5.5mm F	2.8 x 2.5 x 2.2	Black	6'8"	0.8	UL/CSA	4.95	4.46	3.56	2.67
206439CE	MG Electronics	MGT2420	24	830	Screw terminals	3.2 x 2.2 x 1.9	White	—	0.9	UL/CSA	7.19	6.49	5.85	5.25
305091CE	Ault	3264024000A1	24	1600	3.5mm M	2.9 x 2.7 x 2.2	Black	6'	1.5	UL	9.95	8.54	8.06	7.25

▲ Brand and cross reference number may vary except for ReliaPro, Mean Well, Pihong and Globtek



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6VAC/9VAC Dual Output Power Transformer

12VA

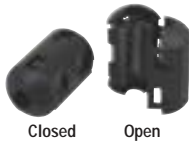
- Input voltage: 120VAC
- Output voltage: 6VAC @ 500mA center tap (blue wires); 9VAC @ 1A center tap (yellow wires)
- Size: 2.1"L x 3.2"W x 2.0"H • Weight: 1.3 lbs.

Part No.	Cross Ref. No.	1	10	100
183089CE	YS57H-099FAA	\$3.95	\$3.56	\$2.84



EMI Suppression Cores with Case

Reduce Electromagnetic Interference (EMI) with a snap of these suppression cores around a power cord or data cord. Easy to install and an affordable way to reduce EMI without redesigning your product.



Round

Part No.	Size (OutDia. x InDia. x L)	1	10	100
218173CE	.64" x .20" x 1.15"	\$.99	\$.89	\$.79
217841CE	.78" x .34" x 1.40"	1.45	1.23	.92
318705CE	.82" x .45" x 1.42"	1.39	1.29	1.25

Square

Part No.	Size (L" x W" x H")	1	10	100
421673CE	1.25 x .71 x .74 (white)	\$1.85	\$1.70	\$1.55
421681CE	1.30 x .70 x .77 (black)	1.85	1.70	1.55

NEW

We offer free technical documents for most of the products we carry. Find them easily on the product specification pages at www.jameco.com.

320VA Variable AC Transformer

- Input voltage: 110VAC @ 50-60Hz
- Matching input/output terminals: P/N 103667CE and 109111CE (disconnect .25" solderless terminals), pg 135
- Maximum current: 2.5A
- Shaft length: 0.5" • Panel mount
- Size: 2.8"Dia. x 2.1"H
- Weight: 2.5 lbs. • One-year warranty

Includes: 3 disconnect .25" solderless terminals

Part No.	Description	1	10	50
149323CE	320VA variable	\$53.95	\$48.59	\$43.75



550VA Variable AC Transformer

- Input voltage: 110VAC @ 60Hz
- Output voltage: 0-140VAC
- Rated current: 5A
- Panel mount
- Input/output terminals: binding post with 0.188" diameter post
- Size: 4.3"Dia. x 4.0"H
- Weight: 6.8 lbs.
- One-year warranty

Part No.	Description	1	10	50
152936CE	550VA variable	\$62.95	\$53.51	\$47.88



120VAC to 120VAC Isolation Transformer

- Input voltage: 120VAC @ 60Hz
- Input connector: 5.5' cord with 2-prong plug
- Output voltage: 120VAC @ 2.5A (isolated)
- Size: 4.2"H x 3.2"W x 4.6"D • Weight: 7.0 lbs.

Part No.	Mfr. Cross Ref. No.	1	10	100
181315CE	ITR300	\$44.95	\$38.21	\$28.66



Quantity SAVE

500VA & 2000VA Variable Transformers

- Input voltage: 110VAC @ 60 Hz
- Power: 500 or 2000VA
- Output voltage: 0 to 130VAC
- Output analog voltmeter
- Input connector.: 3-prong plug w/ 5' cord
- Output connector: 3-prong outlet type
- Lighted on/off power switch
- 169640CE: • 5A @ 250V fuse
- Size: 8.3"L x 6.5"W x 7.0"H
- Weight: 15.6 lbs.
- 169658CE: • 20A @ 250V fuse
- Size: 9.8"L x 8.0"W x 7.0"H
- Weight: 26.5 lbs.

Part No.	Description	1	10	50
169640CE	500VA trans.	\$89.95	\$80.96	\$72.86
169658CE	2000VA trans.	130.95	117.85	106.07



500-2000VA Variable Transformers

- Input: 110VAC or 220VAC
- Power: 500, 1000 or 2000VA
- Output: 0-240VAC
- Banana/screw input terminals
- Universal US/ European output plugs
- Lighted on/off power switch

Part No.	Fuse	Size (L" x W" x H")	Wt. (lbs.)
121275CE	3A/250V (P/N 69438CE)	5.3 x 7.3 x 7.0	10.4
129007CE	5A/250V (P/N 10401CE)	9.4 x 6.5 x 7.7	14.8
152581CE	10A/250V (P/N 69462CE)	9.0 x 7.0 x 7.7	19.8

Part No.	Description	1	10	50
121275CE	500VA trans.	\$79.95	\$69.95	\$62.95
129007CE	1000VA trans.	164.95	140.21	105.16
152581CE	2000VA trans.	174.95	148.71	111.75



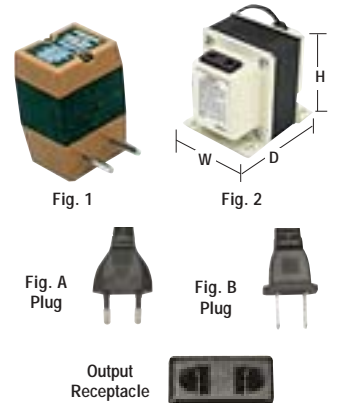
International Step-Up and Step-Down Transformers

- Wide selection to meet your power requirements

Quantity SAVE

Part Number	Cross Ref. Number*	Fig.	Type	Primary Voltage	Secondary Voltage	Power (VA)	H"	W"	D"	Weight (lbs.)	1	10	100
99573CE	AC110V50	1/A	Auto	220VAC	110VAC	50	2.50	1.63	1.33	0.7	\$9.95	\$8.99	\$8.09
85016CE	AC110V300	2/A	Auto	220VAC	110VAC	300	3.50	3.05	3.95	4.8	27.95	24.95	22.49
111851CE	AC110V500	2/A	Auto	220VAC	110VAC	500	3.99	3.60	4.84	8.5	34.95	31.49	28.95
221250CE	GSD-1000	2/A	Auto	220VAC	110VAC	1000	4.63	3.81	6.06	17.0	59.95	50.96	38.22
142906CE	AC110V1500	2/A	Auto	220VAC	110VAC	1500	5.25	4.50	5.75	15.2	79.95	71.95	63.69
99477CE	AC220V50	1/B	Auto	110VAC	220VAC	50	2.50	1.63	1.33	0.7	8.95	8.09	7.25
85008CE	AC220V300	2/B	Auto	110VAC	220VAC	300	3.50	3.05	3.95	4.8	27.95	23.76	17.82
221217CE	P8689	2/B	Auto	110VAC	220VAC	1000	4.63	3.75	6.13	17.0	61.95	57.55	43.85
221313CE	G1SD-500	2/A	Isolation	220VAC	110VAC	500	4.69	3.75	6.00	16.0	78.95	67.11	50.33
222092CE	G1SD-1000	2/A	Isolation	220VAC	110VAC	1000	5.38	4.38	8.13	31.0	149.95	127.46	95.59
221330CE	G1S-500	2/B	Isolation	110VAC	110VAC	500	4.69	3.75	6.00	16.0	78.95	67.11	50.33

* Manufacturer may vary



AC-to-AC Table-Top Adapters & Enclosures

AC-to-AC Table-Top Step-Down Adapter

- Input voltage: 120VAC @ 60Hz
- Output current: 4.0A
- Output plug: 2.1mm (ID) x 5.5mm (OD) female
- Attached AC cord
- Agency approvals: CSA
- Size: 3.7"L x 2.9"W x 2.5"H
- Output volts: 16VAC
- Output watts: 64W
- Cord (AC/AC): 6'/6'
- Color: black
- Weight: 2.8 lbs.

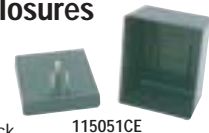
Part No.	Manufacturer	Product Number	1	10	50
176604CE	Jameco	TA661640	\$14.25	\$12.82	\$11.54



Wall Adapter Enclosures

- Enclosures include 3-prong power plug and cable strain relief
- Size: 3.4"H x 2.7"W x 2.3"D
- Material: noryl • Color: black

Part No.	Style	1	10	100
115051CE	Non-vented	\$2.25	\$1.95	\$1.69
115043CE	Vented	2.25	1.95	1.69

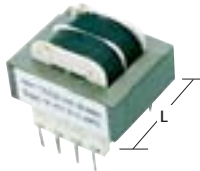
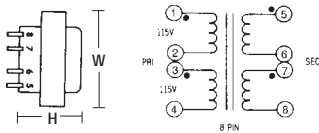


Split-Bobbin Power Transformers

Non-concentrically wound with primaries and secondaries side-by-side providing low capacitive coupling.

- Primary: 115/230VAC, 50-60Hz
- PC terminal pin spacing for accurate placement

SALE

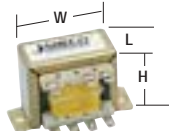


102517CE

Part No.	Cross Ref. No.	Triad Cross	Input Voltage	VA	Individual Output	Parallel Output	Series Output	Dimensions			Wt. (lbs.)	Pricing		
								L"	W"	H"		1	10	100
221292CE	DSW-312	FS12200	115/230	2.5	6.3V @ .20A	6.3V @ .40A	12.6VCT @ .20A	1.38	1.13	1.19	0.3	\$4.95	\$4.21	\$3.16
102533CE	XFR1205SB	FS12500	115/230	6.3	6.3V @ .50A	6.3V @ 1.0A	12.6VCT @ .50A	1.31	1.62	1.30	0.4	7.95	7.16	6.44
102517CE	XFR1602SB	FS16150	115/230	2.4	8V @ .15A	8V @ .30A	16VCT @ .15A	1.17	1.38	1.20	0.3	6.89	5.86	4.39
221284CE	DSW-316	FS16150	115/230	2.4	8V @ .15A	8V @ .30A	16VCT @ .15A	1.38	1.13	1.19	0.3	3.09	2.80	2.55
210921CE	14A-10-Z0B21	—	115/230	10.0	10V @ .05A	10V @ 1.0A	20VCT @ 0.5A	1.88	1.56	1.38	0.5	3.69	3.36	3.05
210956CE	DST2-24-845	—	115/230	1.1	12V @ .045A	12V @ .09A	24VCT @ .045A	1.13	1.13	0.94	0.2	6.49	5.85	5.25
176090CE	SPT41240-120	FS24250	115/230	6.0	12V @ .25A	12V @ .50A	24VCT @ .25A	1.33	1.63	1.59	0.5	6.95	5.91	4.43
102592CE	XFR2405SB	FS24500	115/230	12.0	12V @ .50A	12V @ 1.0A	24VCT @ .50A	1.58	1.90	1.46	0.7	8.79	7.95	5.49
249412CE	DST-5-16	—	115/230	12.8	8V @ .80A	8V @ 1.6A	16VCT @ .80A	1.57	1.88	1.42	0.6	8.95	8.09	7.25
148559CE	XFR3603SB	FS36350	115/230	12.6	18V @ .35A	18V @ .70A	36VCT @ .35A	1.59	1.91	1.72	0.7	7.49	6.69	6.05
210964CE	LP40-300-B14	—	115/230	12.0	20V @ .30A	20V @ 0.6A	40VCT @ 0.3A	2.50	2.00	1.07	0.7	5.85	5.30	4.82
209015CE	ST-6-48	—	115	19.2	24V @ .40A	24V @ .80A	48VCT @ .40A	1.88	2.25	1.40	0.8	2.59	2.32	2.11

Quick-Connect Power Transformers

- Quick-connect transformers are bobbin wound for smaller size and reduced electrostatic shielding requirements
- Terminals: quick connect, solder
- Input voltage: 115/230VAC, 50-60Hz



104387CE

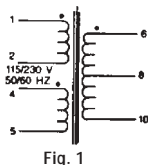


Fig. 1

Part No.	Cross Ref. No.	Triad Cross	Fig.	Input Voltage	Output Voltage	VA	Size of Connect	Dimensions			Wt. (lbs.)	Pricing		
								L"	W"	H"		1	10	100
104387CE	XFR1225Q	FD612	1	115/230VAC	12.6VCT @ 2.5A	31.5	0.187"	1.75	2.33	2.00	1.3	\$9.29	\$7.90	\$5.92
104408CE	XFR1635Q	FD716	1	115/230VAC	16VCT @ 3.5A	56.0	0.187"	2.00	2.70	2.30	1.8	12.95	11.01	8.26
101864CE	XFR2424Q	FD724	1	115/230VAC	24VCT @ 2.4A	57.6	0.187"	2.40	2.70	2.25	1.7	11.95	10.16	7.62
104416CE	XFR3615Q	FD736	1	115/230VAC	36VCT @ 1.5A	54.0	0.187"	1.90	2.70	2.30	1.8	9.95	8.96	6.72

115VAC and 115/230VAC Power Transformers

Power transformers have both single and dual-voltage input and center-tapped outputs. This makes them the perfect choice for power supply design or for use in transformer, rectifier and filter circuits.

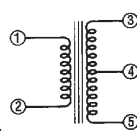
- Primary: 115VAC or 115/230VAC, 50-60Hz



29225CE

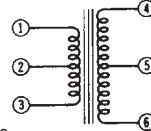
115VAC
50-60Hz

Fig. 1



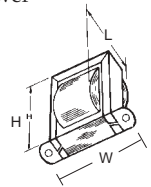
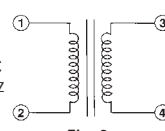
115/230VAC
50-60Hz

Fig. 2



115VAC
50-60Hz

Fig. 3



Part No.	Cross Ref. No.	Triad Cross	Primary			VA	Secondary			Lead Type	Fig.	Dimensions			Wt. (lbs.)	Pricing		
			Color Code				Voltage	Color Code				L"	W"	H"		1	10	100
102162CE	XFR6102	F314X	Black	Yellow*	Red	7.6	6.3VCT @ 1.2A	White	Black*	Wire	2	1.56	1.96	1.67	0.8	\$8.49	\$7.22	\$5.41
105523CE	XFR0910	—	Black	White*	Red	9.0	9VCT @ 1A	Blue	Black*	Wire	2	1.79	1.96	1.66	0.7	6.95	5.91	4.43
221399CE	P-8657	F218X	Black	—	Black	24.0	12VAC @ 2A	White	—	Wire	3	2.13	3.25	2.00	1.3	9.15	8.49	7.15
221356CE	P-8658	F219X	Black	—	Black	48.0	12VAC @ 4A	White	—	Wire	3	2.25	4.00	2.63	2.3	12.95	11.95	9.95
29225CE	XFR122	F44X	Yellow	—	Yellow	25.2	12.6VCT @ 2A	Blue	Red*	Wire	1	2.12	2.33	1.96	1.5	9.95	8.99	7.99
102154CE	XFR1220	F344X	Black	Yellow*	Red	25.2	12.6VCT @ 2A	White	Black*	Wire	2	2.35	2.32	1.97	1.5	10.95	9.39	6.99
149770CE	XFR1240	F3181U	Black	Red*	Yellow	50.4	12.6VCT @ 4A	White	Black*	Wire	2	2.45	2.70	2.24	2.2	12.95	11.69	10.49
102120CE	XFR124	F181U	Black	—	Black	50.4	12.6VCT @ 4A	White	Black*	Wire	1	2.53	3.08	2.61	2.7	12.95	11.69	10.49
105531CE	XFR1810	—	Blue	Red*	Black	18.0	18VCT @ 1A	Yellow	Black*	Wire	2	2.32	2.05	1.90	1.2	6.95	6.26	5.31
149956CE	XFR1820	—	Black	Red*	Yellow	36.0	18VCT @ 2A	White	Black*	Wire	2	2.26	2.66	2.28	1.8	8.95	7.95	6.95
221381CE	P8396	—	Black	—	Black	9.6	24VCT @ 0.4A	White	Black*	Wire	1	1.63	2.8	1.5	0.6	6.95	5.91	4.43
102111CE	XFR2410	F346X	Black	Yellow*	Red	24.0	24VCT @ 1A	White	Black*	Wire	2	2.22	2.33	1.97	1.5	8.95	7.61	5.71
221372CE	P-8662	F192X	Black	—	Black	48.0	24VCT @ 2A	White	Black*	Wire	1	2.38	4.00	2.62	2.3	11.95	10.16	7.62
112512CE	XFR242N	F229X	Black	—	Black	48.0	24VAC @ 2A	White	—	Wire	3	2.21	3.58	2.25	1.8	9.79	8.85	7.95
221364CE	P-8663†	F193U	—	—	—	96.0	24VCT @ 4A	—	—	Lug	1	2.81	3.13	3.81	4.0	18.95	17.85	14.95
221410CE	P-8666†	F226U	—	—	—	288.0	24VCT @ 12A	—	—	Lug	1	4.63	3.75	4.63	11.2	34.95	31.96	28.97
99653CE	XFR242	—	Red	—	Red	49.2	24.6VCT @ 2A	Blue	Yellow*	Wire	1	2.44	2.70	2.30	2.5	10.95	9.31	6.98
102103CE	XFR2520	F341X	Black	White*	Red	50.4	25.2VCT @ 2A	Orange	Black*	Wire	2	2.45	2.67	2.26	2.8	14.95	13.46	12.11
149796CE	XFR2820	F3185U	Black	Red*	Yellow	56.0	28VCT @ 2A	White	Black*	Wire	2	2.45	2.70	2.24	2.3	12.95	11.69	8.59

* Center tap

† Solder terminals

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Class 1 Current Transformer

This series can be applied to test, control, display, and record the running of electrical equipment, and to protect the equipment against damage in the AC circuit.

- Maximum voltage: 660VAC
- Size: 3.0"L x 3.2"W x 1.6"T
- Frequency: 50-60Hz
- Weight: 1.1 lbs.

Includes: Mounting bracket and hardware

Part No.	Cross Ref. No.	Power	Ratio	1	10	100
174887CE	MSQ30	5VA	200A/5A: 5VA	\$4.49	\$4.04	\$3.64



Current Sensing Transformer

- Inductance: 5mH
- Turns: 60
- Sensitivity current (I_{in}): 1A
- Max. current: 300mA
- Freq. range: 10-50 kHz
- Sensitivity voltage (V_{out}): 1V
- Terminating resistor: 50Ω
- Size: 0.8"H x 0.7"W x 0.4"T



Part No.	Cross Ref. No.	1	10	100
164718CE	MTC30101	\$2.15	\$1.95	\$1.75

International Power Cords

- 3-conductor detachable power cords
- Excellent resistance to jacket abrasion
- Voltage rating: 300 volts
- BSI: British Standard Institution



Cord Configuration Chart – End 1



A

Cord Configuration Chart – End 2



117911CE (Fig. 1)



174633CE (Fig. 2)

Part No.	Cross Ref. No.*	Country	Agency Approvals	Cord Plug Fig.		Length	Cord Color	Conductors	Cord Type	Pricing			
				End 1	End 2					1	10	100	250
117911CE	PCVDE-6B	Europe	All in Fig. 3	A	1	6 ft.	Black	3/.75mm ²	H05VVF	\$5.49	\$4.95	\$4.45	\$3.75
174633CE	21071H5182	UK/Ireland	BSI	A	2	8 ft.	Black	3/1.0mm ²	H05VVF	6.49	5.84	5.26	4.73

* Manufacturer may vary

European Agency Approvals

Germany	VDE	
Austria	OVE	
Belgium	CEBEC	
Denmark	DEMKO	
Finland	FIMKO	
France	LCIE	
Netherlands	KEMA	
Norway	NEMKO	
Sweden	SEMKO	
Switzerland	SEV	

Fig. 3

Power Entry Filters and AC Receptacles



Quantity SAVE

SALE



- Frequency: 50/60Hz

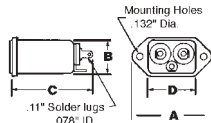


Fig. 1 (Solder Terminals)

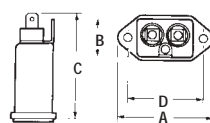


Fig. 2 (Fast-on Terminals)



Fig. 3 (210913CE)

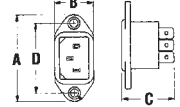


Fig. 4 (Male)

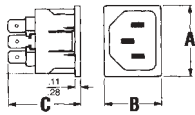


Fig. 5 (Female)

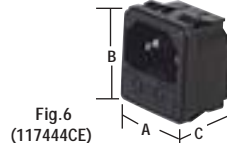


Fig. 6 (117444CE)

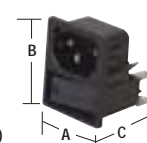


Fig. 7 (184903CE)



Fig. 8 (265527CE)

Part No.	Cross Ref. No.	Corcom Cross	Description	Fig.	Current (A)	Voltage (VAC)	Terminals	Agency Approvals	Terminal Size	Dimension (inches)				Pricing			
										A	B	C	D	1	10	100	500
150615CE	03AC1	3EF1	Power entry filter, straight (flanged)	1	3	250	Solder	UL/CSA/VDE	.16"	1.89	0.88	2.58	1.58	\$5.95	\$5.36	\$4.28	\$3.21
42454CE	06AC1	6EF1	Power entry filter, straight (flanged)	1	6	250	Solder	UL/CSA/VDE	.16"	1.96	0.88	2.06	1.58	8.95	8.06	6.44	4.83
40601CE	03AE1*	3EF1F	Power entry filter, straight (flanged)	2	3	250	Fast-on	UL/CSA/VDE	.25"	1.97	0.90	2.16	1.58	5.95	5.36	4.28	3.19
63132CE	06AE1	6EF1F	Power entry filter, straight (flanged)	2	6	250	Fast-on	UL/CSA/VDE	.16"	1.96	0.88	2.06	1.58	6.95	6.29	5.65	5.09
16651CE	JR101		AC power inlet (male) flanged	4	15	250	Fast-on	UL/CSA/VDE	.187"	1.96	0.89	1.07	1.58	.79	.71	.57	.41
218288CE	0708-1-CQ		AC power outlet (female) flanged	5	10	250	Fast-on	UL/CSA/VDE	.189"	1.97	1.14	1.27	1.58	.42	.39	.35	.32
117444CE	0717 ¹		AC power inlet (male) fused (snap-in)	6	10	250	Fast-on	UL/CSA/VDE	.187"	1.18	1.30	1.21	N/A	1.95	1.79	1.59	1.45
321621CE	WS-044A		AC power inlet (male) fused (snap-in)	8	10	250	Fast-on	UL/CSA/VDE	.185"	1.73	1.29	0.77	1.42	1.79	1.59	1.39	1.29

Other Manufacturers — Great Deals

Part No.	Cross Ref. No.	Description	Fig.	Current (A)	Voltage (VAC)	Terminals	Agency Approvals	Terminal Size	A	B	C	D	1	10	100	500
165016CE	SUP-J15G-E-2	Power entry filter, straight (flanged)	1	15	250	Solder	UL/CSA/VDE	.16"	1.89	0.88	2.18	1.58	\$5.95	\$5.36	\$4.28	\$3.21
395647CE	2VK1	Power entry filter	9	2	250	Fast-on	UL/CSA/VDE	.25"	2.81	0.91	3.10	N/A	6.95	6.05	5.49	5.22
210913CE	01GEEW3E	Power entry filter, straight (flanged)	3	1	250	Wire	UL/CSA/VDE	4.1"	2.05	0.99	1.78	1.58	5.95	5.36	4.28	3.19
147109CE	42R02	AC power inlet (male) snap-in	4	15	250	Fast-on	UL/CSA/VDE	.25"	1.22	0.94	1.13	N/A	.65	.56	.50	.45
147900CE	P0707*	AC power inlet (male) flanged	4	15	250	Solder	UL/CSA/VDE	.16"	1.96	0.89	1.04	1.58	.69	.62	.50	.37
184903CE	42R36315210U	AC power inlet (male) w/ switch (snap-in)	7	15	250	Fast-on	UL/CSA/VDE	.25"	1.30	1.58	1.42	N/A	1.95	1.76	1.40	1.05
265527CE	WS-044	AC power inlet (male) fused	8	10	250	Fast-on	UL/CSA/VDE	.185"	1.73	1.29	0.77	1.42	1.79	1.59	1.39	1.29

* Manufacturer may vary ¹ Includes spare fuse holder – Fuse type 5mm x 20mm (250V)



Lowest Price Guarantee

Have you found a product at a lower print-advertised price? We'll beat that price by 10% right down to our cost!



General Purpose Power Cords

Quantity SAVE

AWG	Volts	Amps	VA
18	125	10	1250
16	125	12	1500
14	125	15	1875

- Molded connectors
- Voltage rating: 300 volts
- Excellent resistance to jacket abrasion
- Temperature: -20°C to +60°C



Part No.	Cross Ref. No.	Wt.	Fig.	Length	Color	AWG	Cord Type*	Pricing			
								1	10	100	250
2-conductor power cord with pigtails											
152186CE	17106BG	.20	1	6'	Beige	18/2	SPT-2	\$1.29	\$1.16	\$.93	\$.70
124433CE	ST008	.16	1	6'	Black	18/2	SPT-2	1.15	1.03	.83	.69
2-conductor power cord with pigtail with strain relief											
42041CE	17106	.25	1	6'	Black	18/2	SPT-2	\$1.15	\$1.03	\$.93	\$.78
2-conductor "8" style power cord for laptops and power supplies											
189587CE	VW-1	.30	2	6'	Black	18/2	SPT-2	\$2.49	\$2.24	\$1.79	\$1.34
355944CE	VW-1	.30	2	6'	Gray	18/2	SPT-2	2.05	1.84	1.48	1.11

2-conductor "D" style power cord for laptops and power supplies											
200791CE	LL114039	.30	3	6'	Black	18/2	SPT-2	\$2.49	\$2.24	\$1.79	\$1.34

3-conductor power cord with pigtails											
38009CE	17237	.31	4	6'	Gray	18/3	SVT	\$2.39	\$2.15	\$1.72	\$1.29
173809CE	17405	.39	4	6'	Gray	18/3	SJT	2.35	2.15	1.89	1.59
37997CE	17236	.30	4	6'	Black	18/3	SVT	2.79	2.32	2.11	1.99
279662CE	32V86S	.32	4	6'	Black	18/3	SVT	2.79	2.32	2.11	1.99
159409CE	17405B	.37	4	6'	Black	18/3	SJT	2.59	2.15	1.95	1.79
38025CE	17238	.39	4	8'	Black	18/3	SVT	3.29	2.75	2.45	2.25
102007CE	17535B	.49	4	10'	Black	18/3	SVT	3.99	3.59	2.87	2.15
196285CE	LL40378	.80	4	10'	Black	16/3	SJT	3.49	3.14	2.83	2.35
166924CE	17516	.67	4	6' 7"	Black	14/3	SJT	3.95	3.56	3.20	2.88
100271CE	17629B	.88	4	9'	Black	14/3	SJT	3.39	3.00	2.74	2.53

3-conductor piggy-backed computer power cord											
84937CE	17669-6	.47	5	6'	Black	18/3	SJT	\$6.95	\$6.25	\$5.65	\$4.75

3-conductor power supply cord (shielded)											
213874CE	17660BG	.40	6	6'	Beige	18/3	SVT	\$3.59	\$3.25	\$2.95	\$2.65
161761CE	17742	.40	6	6'	Black	18/3	SVT	4.49	4.04	3.23	2.42
229219CE	9350819	.45	6	8'	Black	18/3	SJT	4.49	4.04	3.23	2.42
190625CE	37805	.75	6	10'	Beige	18/3	SJT	3.49	3.14	2.51	1.88
142607CE	17502	.63	6	6'	Black	16/3	SJT	3.99	3.59	2.87	2.15

Part No.	Cross Ref. No.	Wt.	Fig.	Length	Color	AWG	Cord Type*	Pricing			
								1	10	100	250
3-conductor power supply cord											
103747CE	17248	.34	6	6'	Gray	18/3	SVT	\$3.89	\$3.50	\$2.80	\$2.49
38041CE	17249	.37	6	6'	Beige	18/3	SVT	3.49	3.15	2.79	2.49
38050CE	17250	.36	6	6'	Black	18/3	SVT	3.75	3.29	2.89	2.17
132118CE	17500	.44	6	6'	Black	18/3	SJT	4.49	4.04	3.23	2.42
117583CE	17502	.37	6	8'	Gray	18/3	SVT	3.49	3.14	2.51	1.88
171096CE	17758	.60	6	8'	Black	18/3	SJT	3.95	3.56	2.84	2.13
102023CE	17501V	.55	6	10'	Black	18/3	SVT	3.95	3.39	3.09	2.79
192727CE	17501J	.64	6	10'	Black	18/3	SJT	3.95	3.56	2.84	2.13
163361CE	6952299	.33	6	14'	Black	18/3	SJT	5.39	4.85	3.88	2.91
159361CE	17602	.57	6	6'	Black	16/3	SJT	3.79	3.41	2.73	2.05
249383CE	LL34977	.72	6	9'	Black	16/3	SJT	3.95	3.55	3.19	2.89
125541CE	17504	.71	6	6' 7"	Black	14/3	SJT	4.95	4.46	4.01	3.12

3-conductor right-angle power supply cord (shielded)											
173251CE	17250RS	.40	7	6'	Black	18/3	SVT	\$3.29	\$2.96	\$2.37	\$1.78

3-conductor right-angle power supply cord											
117356CE	8120-6177	.41	7	6'	Gray	18/3	SVT	\$3.95	\$3.56	\$2.84	\$2.11
38076CE	17250R	.54	7	6'	Black	18/3	SVT	3.49	3.15	2.85	2.55
177383CE	17507	.66	7	10'	Black	18/3	SJT	3.95	3.59	3.19	2.69

3-conductor computer power supply extension cord											
28468CE	PEC	.36	8	6'	Black	18/3	SVT	\$3.89	\$3.51	\$2.69	\$1.99
420224CE	10W1-02212	.53	8	12'	Black	18/3	SVT	3.89	3.02	2.87	2.73
319804CE	LR94903	.33	8	6'	Gray	18/3	SVT	4.15	3.74	2.99	2.24

3-conductor power cord w/ hospital grade male (green dot)											
132011CE	17006G	.82	9	10'	Gray	16/3	SJT	\$8.45	\$7.60	\$6.08	\$4.56
265412CE	EXITOW	.70	9	10'	Gray	18/3	SJT	7.99	7.29	6.55	5.89
115078CE	17006	.84	9	10'	Black	16/3	SJT	8.95	8.05	6.45	4.89

3-conductor computer monitor power adapter cord											
177447CE	MPC1	.16	10	1'	Black	18/3	SVT	\$2.95	\$2.66	\$2.12	\$1.59

3-conductor power cord (power strip saver)											
199777CE	PSS-1	.16	11	1'	Black	18/3	SVT	\$1.69	\$1.55	\$1.39	\$1.25
208338CE	SY0527BG	.16	11	1'	Beige	18/3	SVT	1.69	1.45	1.09	1.03

3-conductor power cord ("Y" type power strip saver)											
208346CE	GPR-2006	.38	12	2'	Black	18/3	SVT	\$2.89	\$2.75	\$2.59	\$2.46

* Thermoplastic Cord Jacket Type: SPT-2 (Flat): Junior duty; SVT (Round): Light service; SJT (Round): Junior service

† European standard insulation color code

Blue Part No. = Limited Quantity Available

Jameco ValuePro™ Power Cords



AWG	Volts	Amps	VA
18	125	10	1250
16	125	12	1500
14	125	15	1875

Part No.	Volex X-Ref.	Fig. (p.192)	Plug Detail (see below)	Length	AWG (Stranding)	Cord Type*	Pricing			
							1	10	100	250

3-conductor power cord w/ pigtails, NEMA 5-15P plug, PVC, black

339670CE	17239	13	290B	8'	18/3(41x34)	SVT	\$2.79	\$2.05	\$1.95	\$1.88
339688CE	17407	13	290B	8'	18/3(16x30)	SJT	2.79	2.08	1.97	1.90
339717CE	17276	13	290B	20'	16/3(26x30)	SJT	8.59	6.44	6.11	5.84

3-conductor power cord w/ pigtails, NEMA 5-15P plug, rubber, black

339830CE	17412	13	290B	9'	18/3(16x30)	SJT	\$6.05	\$4.48	\$4.26	\$4.11
339696CE	17409	13	290B	8'	18/3(16x30)	SJO	4.85	3.62	3.43	3.28
339709CE	17425	13	290B	15'	16/3(26x30)	SJT	11.05	10.07	8.15	7.30

3-conductor power cord w/ pigtails, NEMA 5-15P plug, shielded, black

339768CE	17740	13	290B	6'7"	18/3(41x34)	SVT	\$3.15	\$2.99	\$2.85	\$2.70
339899CE	17741	13	290B	9'10"	18/3(41x34)	SVT	6.29	5.79	5.21	4.69
339784CE	17516	13	173	6'7"	14/3(41x30)	SJT	4.69	4.02	3.75	3.44
339901CE	17517	13	173	9'10"	14/3(41x30)	SJT	5.99	5.54	4.99	4.48

3-conductor power cord w/ pigtails, NEMA 5-15P plug, unshielded, black

339653CE	17747†	13	290B	6'7"	18/3(41x34)	SVT	\$2.65	\$2.35	\$2.14	\$1.93
339661CE	17514	13	290B	6'7"	16/3(65x34)	SJT	3.65	3.27	2.94	2.65
339733CE	17534	13	290B	6'7"	18/3(41x34)	SVT	2.35	1.74	1.65	1.60
339741CE	17512	13	290B	6'7"	18/3(41x34)	SJT	2.59	2.36	2.16	1.94
339872CE	17513	13	290B	9'10"	18/3(41x34)	SJT	3.59	3.22	2.93	2.64
339881CE	17515	13	290B	9'10"	16/3(65x34)	SJT	3.79	3.70	3.60	3.54

3-conductor power cord w/ pigtails, NEMA, PVC, unshielded, gray

339944CE	17405	13	290B	6'	18/3(16x30)	SJT	\$2.45	\$1.78	\$1.74	\$1.63
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3-conductor power cord w/ pigtails, shielded, black

339995CE	17751	15	910	6'7"	18/3(41x34)	SVT	\$4.05	\$3.81	\$3.62	\$3.44
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3-conductor power cord w/ pigtails, unshielded, black

339987CE	17518	14	386A	6'7"	18/3(41x34)	SJT	\$3.65	\$3.08	\$2.81	\$2.53
340005CE	17520	14	386E	6'7"	18/3(26x30)	SJT	2.95	2.79	2.65	2.51
340021CE	17254	14	386	7'6"	18/3(41x34)	SVT	2.55	2.42	2.30	2.19
340056CE	17537	15	910	9'10"	18/3(41x34)	SJT	3.85	3.66	3.47	3.30
340064CE	17519	14	386E	9'10"	18/3(41x34)	SJT	3.29	3.14	2.98	2.83
340072CE	17521	14	386E	9'10"	16/3(26x30)	SJT	3.69	3.54	3.36	3.19
340099CE	17539	15	910	9'10"	16/3(26x30)	SJT	4.49	4.27	4.05	4.04

3-conductor power cord, "Y" twin end, black

340558CE	17272A	12	AEC-30/250A	6'	18/3(41x34)	SJT	\$7.59	\$5.67	\$5.38	\$5.13
340566CE	17268A	19	150/250A	6'	18/3(41x34)	SJT	7.85	5.84	5.55	5.29
340574CE	17270A	19	150/250A	6'	16/3(26x30)	SJT	8.85	6.62	6.29	6.00
340531CE	17269A	19	150/250A	10'	18/3(41x34)	SJT	9.55	7.16	6.80	6.48
340540CE	17271A	19	150/250A	10'	16/3(26x30)	SJT	10.65	7.97	7.57	7.22

* Thermoplastic Cord Jacket Type: SPT-2 (Flat): Junior duty; SVT (Round): Light service; SJT (Round): Junior service; SJO (Round): Junior service with oil-resistant jacket † Temperature rating: 105°C †† Foil and braid shielded

Part No.	Volex X-Ref.	Fig. (p.192)	Plug Detail (see below)	Length	AWG (Stranding)	Cord Type*	Pricing			
							1	10	100	250

3-conductor power cord w/ pigtails, shielded, black

339961CE	17749	14	386A	6'7"	18/3(41x34)	SVT	\$2.85	\$2.79	\$2.73	\$2.67
340013CE	17620	14	386E	6'7"	16/3(65x34)	SJT	4.79	4.56	4.33	4.11
340030CE	17750	14	386A	9'10"	18/3(41x34)	SVT	3.99	3.85	3.63	3.45
340081CE	17621	14	386E	9'10"	16/3(65x34)	SJT	5.39	5.17	4.91	4.67

3-conductor right angle detachable power cord, shielded, PVC, black

340128CE	17745	7	290B/910	6'7"	18/3(41x34)	SVT	\$3.79	\$3.62	\$3.43	\$3.26
340152CE	17606	7	290B/910	6'7"	18/3(41x34)	SJT	7.65	7.03	6.34	5.70
340179CE	17608	7	185/910	6'7"	16/3(65x34)	SJT	5.45	5.16	4.90	4.65
340224CE	17746	7	290B/910	9'10"	18/3(41x34)	SVT	5.15	3.88	3.69	3.49
340232CE	17607	7	290B/910	9'10"	18/3(41x34)	SJT	9.29	8.47	7.62	6.86
340259CE	17609	7	185/910	9'10"	16/3(65x34)	SJT	10.59	9.60	8.71	7.84

3-conductor right angle detachable power cord, unshielded, PVC, black

340321CE	17506	7	290B/910	6'7"	18/3(41x34)	SJT	\$4.09	\$3.72	\$3.35	\$3.02
340355CE	17508	7	290B/910	6'7"	16/3(26x30)	SJT	2.59	2.47	2.35	2.33

3-conductor detachable power cord, shielded, PVC, black

340101CE	17725†	16	290B/386A	6'7"	18/3(41x34)	SVT	\$4.15	\$3.79	\$3.45	\$3.17
340110CE	17742	16	290B/386A	6'7"	18/3(41x34)	SVT	3.49	3.14	2.85	2.60
340144CE	17600	16	290B/386A	6'7"	18/3(41x34)	SJT	7.85	6.89	6.20	5.58
340161CE	17602	16	185/386E	6'7"	16/3(65x34)	SJT	5.15	5.04	4.93	3.93
340187CE	17604	16	173/386E	6'7"	14/3(41x30)	SJT	9.29	8.67	7.78	7.26
340195CE	17743	16	290B/386A	9'10"	18/3(41x34)	SVT	5.29	4.90	4.45	4.09
340208CE	17601	16	290B/386A	9'10"	18/3(41x34)	SJT	5.29	5.10	4.60	4.13
340241CE	17603	16	185/386E	9'10"	16/3(65x34)	SJT	5.75	5.46	5.18	4.93
340267CE	17605	16	173/386E	9'10"	14/3(41x30)	SJT	11.45	10.54	9.57	8.79

3-conductor detachable power cord, foil shielded, PVC, black

340216CE	17661	16	290B/386A	9'10"	18/3(41x34)	SVT	\$13.49	\$10.08	\$9.58	\$9.14
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3-conductor detachable power cord, unshielded, PVC, black

340291CE	17001A	16	290B/386E	3'0"	16/3(26x30)	SJT	\$3.69	\$2.72	\$2.59	\$2.50
340312CE	17758	16	290B/386	6'7"	18/3(41x34)	SJT	4.95	4.56	4.09	3.69
340347CE	17502	16	290B/386E	6'7"	16/3(26x30)	SJT	4.25	3.78	3.42	3.16
340363CE	17504	16	173/386E	6'7"	14/3(41x30)	SJT	4.19	3.75	3.36	3.02
340401CE	17255	16	290B/386E	7'6"	16/3(26x30)	SJT	4.15	3.04	2.88	2.80

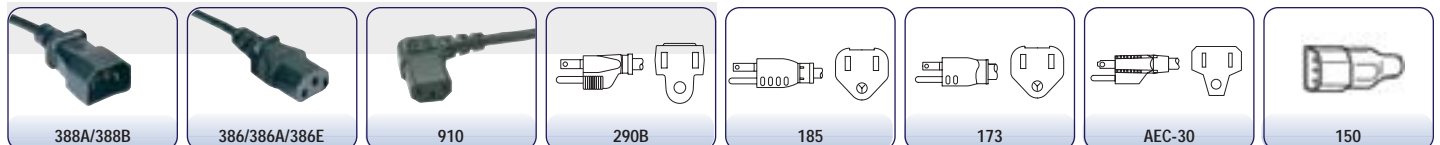
3-conductor jumper power cord, shielded, black

340515CE	17625	8	388B/386E	3'3"	16/3(26x30)	SJT	\$6.59	\$6.09	\$5.48	\$4.93
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3-conductor jumper power cord, unshielded, black

340486CE	17524	8	388B/386E	3'3"	18/3(41x34)	SJT	\$3.65	\$3.31	\$2.98	\$2.68
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Plug Detail – Industry Standard Designations



Volex Power Cords

NEW ON THE WEB

These products ship from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

Type	Length	Feature	AWG Stranding	O.D.	Rating	Color
Retractable	24'	No connectors	18 (42 x 34)	0.385"	300V	Black
3-conductor midcord	8'	Plug-clear/connector	18 (41 x 34)	0.315"	10A, 125V	Gray
Extension	10'	Plug/connector	16 (26 x 30)	0.340"	13A, 125V	Black
Extension	8'	Plug/connector	16 (26 x 30)	0.340"	13A, 125V	Black
2-conductor	2'	Connector	18 (41 x 34)	11 x .22	1A, 250V	Black
International	2 meter	Plug/connector	H05VVFG 1mm²	—	10A	Black
3-conductor	7'6"	Plug/connector	16 (26 x 30)	0.340"	13A, 125V	Black
AC receptacle	—	—	—	—	15A, 250V	—

See Our Complete Volex Power Cords Offering at www.Jameco.com/Prod/Volex

Save 10% or more on most batteries!

Lead Acid Batteries

- Sealed
- UL approved
- Rechargeable
- Two-year warranty



264014CE



264031CE



264049CE



264057CE



264065CE



264073CE

Part Number	Product Number	Nominal Voltage	Amp-Hrs.	Cross Reference				Terminal Size	Size (L" x W" x H")	Wt. (lbs.)	Pricing	
				Panasonic	YUASA	Eagle Picher	Tempest				1	10
264014CE	TY-6-4.5	6	4.5	LCR6VP	NP4-6	CF16V4	TR-4-6	Quick connect 0.187"	2.8 x 1.9 x 4.0	1.9	\$8.99	\$7.89
317024CE	LA-TY-6-12	6	12.0	—	—	—	—	Quick connect 0.187"	5.9 x 1.9 x 3.7	4.6	14.69	12.75
318941CE	LA-TY-12-.8	12	0.8	—	—	—	—	9" wire w/o connector	3.8 x 1.0 x 2.4	0.8	16.39	15.19
318844CE	LA-TY-12-1.2	12	1.2	—	—	—	—	Quick connect 0.187"	3.8 x 1.7 x 2.1	1.3	13.99	12.69
264031CE	TY-12-2.3	12	2.3	LCR12V2.2P	NP2.3-12	CF12V1.5	TR2.3-12	Quick connect 0.187"	7.0 x 1.3 x 2.4	2.1	15.39	14.59
318924CE	LA-TY-12-3.2	12	3.2	—	—	—	—	Quick connect 0.187"	5.3 x 2.7 x 2.4	3.1	16.19	14.69
264049CE	TY-12-4.5	12	4.5	LCR12V4PF	NP412	CF12V4	TR4-12	Quick connect 0.187"	3.5 x 2.8 x 4.0	3.8	15.79	14.55
264057CE	TY-12-7	12	7.0	LCR12V7.2BP	NP712	CFM12V65	TR7.5-12	Quick connect 0.187"	5.9 x 2.6 x 3.7	5.6	16.95	15.15
264065CE	TY-12-12	12	12.0	PS12120	—	CFM12V12	TR12-12	Quick connect 0.187"	5.9 x 3.9 x 3.9	9.0	30.65	28.25
264073CE	TY-12-18	12	18.0	LCR12V17BP	NPG18-12	CF12V18	TR18-12	Quick connect 0.472"	7.1 x 3.0 x 6.6	13.3	32.85	28.15
318852CE	LA-TY-12-35	12	35.0	—	—	—	—	Quick connect 0.644"	7.6 x 5.1 x 6.3	27.6	47.79	41.69

TEMPEST Lead Acid Batteries

- Color-coded terminals
- Sealed
- Rechargeable
- Nominal voltage: 12
- UL approved
- Two-year warranty



Tempest is an ISO-9001 Certified Company

SALE



218421CE



218464CE

Part Number	Product Number	Amp-Hrs.	Charging Voltage		Terminal Size	Size (L" x W" x H")	Wt. (lbs.)	Pricing	
			Standby	Cyclic				1	10
218421CE	TR22-12	22	13.6-13.8	14.5-14.9	Terminal pad 0.472"Dia.	7.2 x 3.0 x 6.6	15.0	\$39.95	\$35.95
218464CE	TR70-12B	70	13.6-13.8	14.5-14.9	Quick connect 0.590"	10.3 x 6.7 x 8.2	55.1	129.95	116.96

Zinc Chloride, Silver Oxide & Alkaline Batteries

Applications: personal computers, workstations, test equipment, feature telephones, copiers, fax machines, video scramblers/descramblers and remotes.



Fig. 1



Fig. 2



Fig. 3



Fig. 4



Fig. 5

SALE

Zinc Chloride

Part No.	Cross Ref. No.	Figure	Size	Volts	mAh	Terminals/Connection	Dimensions	1	10	25
151087CE	AA	1	AA	1.5	700	Barrel pressure	1.9"L x 0.55"Dia.	\$2.20	\$1.17	\$1.16
151095CE	GF6F22	3	9V	9	300	—	1.7"L x 1.0"W x 0.67"Dia.	1.25	.99	.79

Blue Part No. = Limited Quantity Available

Silver Oxide

Part Number	Cross Ref. No.	Figure	Size	Volts	mAh	Terminals/Connection	Dimensions	1	10	25
140783CE	357	2	Button	1.55	1600	—	0.454"Dia.	\$1.75	\$1.49	\$1.25

Alkaline

Part Number	Cross Ref. No.	Figure	Size	Volts	mAh	Terminals/Connection	Dimensions	1	10	25
249181CE	LR031.5V	4	AAA	1.5	—	3-pack	1.7"L x 0.40"Dia.	\$1.49	\$1.34	\$1.00
150965CE	Rayovac 840	5	—	4.5	600	Batt. pack w/con. (Apple)	1.14"L x 0.73"W x 0.96"H	9.95	8.96	8.06
198791CE	MN1604	3	9V	9	500	—	1.7"L x 1.0"W x 0.67"H	2.85	2.55	2.29

Compare our Awesome Prices in Batteries!

Jameco Part No.	Description	Jameco Price	Digi-Key Price	Mouser Price	Newark Price	Minimum Savings	Discount
318924CE	Lead Acid, 12V, 3.2AH	\$16.19	\$26.57	\$20.00	Not offered	\$3.81	19.1%
240223CE	Lithium, CR2335, 3V, 300mA	\$0.99	\$1.43	\$1.57	\$1.70	\$0.44	30.8%
240231CE	Lithium, CR2450, 3V, 500mA	\$1.09	\$1.35	\$1.21	\$2.61	\$0.12	9.9%
244486CE	NiCd, AA, Flat Top, 1.2V, 600mAh	\$1.25	Not offered	\$9.27	\$1.60	\$0.35	21.9%
244961CE	NiMH, C, Flat Top, 1.5V, 2,500mAh	\$4.75	\$7.77	\$5.38	Not offered	\$0.63	11.7%
244953CE	NiMH, C-Cell, 1.5V, 1,500mAh	\$2.15	Not offered	\$2.50	\$3.13	\$0.35	14.0%

These are single unit prices taken from each party's website on September 9, 2005, and do not include shipping & handling charges, volume discounts or any other discounts. Pricing does fluctuate, so please be sure to check when making purchases.

Eveready® Energizer® Alkaline Batteries



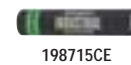
198731CE



215845CE



198707CE



198715CE



Energizer® and the Energizer Bunny® are registered trademarks of the Eveready Battery Company, Inc.

- Single-use Energizer® alkaline batteries for heavy drain and frequent use applications

Part No.	Size	1	10
198731CE	9-volt	\$1.89	\$1.81
215845CE	D	1.12	1.08

- Prepackaged: order in increments of 4

Part No.	Size	4	40	100
198707CE	AA	\$0.64	\$0.62	\$0.61
198715CE	AAA	.49	.44	.43

Not All Are Created Alike!

When designers choose batteries, most think of two criteria. First, get the right size and chemistry (e.g. – AA NiMH), and second, find the lowest price. Few however, really consider how power-hungry the application is.

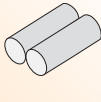
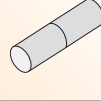
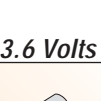
But just like a circuit's signal-to-noise ratio, a battery's capacity-to-demand ratio is also very important. Consider a circuit that "demands" 1,400 mA. If powered by batteries with a 1,600 mA capacity, the ratio is about 1.14. Using a battery with 1,800 mA capacity doubles the headroom (fractional part) from 1.14 to 1.28. Stated another way, the battery can discharge significantly more before the voltage drops below threshold.

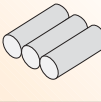
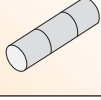
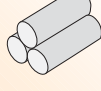
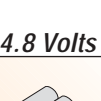
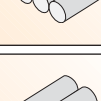
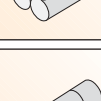
Practical Practices
Money Saving Tips for the Engineer

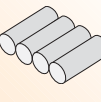
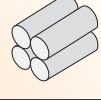
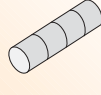
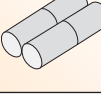
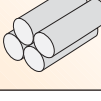

Rechargeable Battery Packs

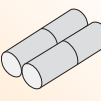
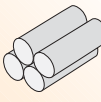

Jameco ReliaPro™ rechargeable battery packs are available in many configurations and capacities. Each series-connected pack is available with 6" lead wires or 0.125"W x 0.4"L solder tab hook-ups. Available in economical NiCd and powerful NiMH compositions.

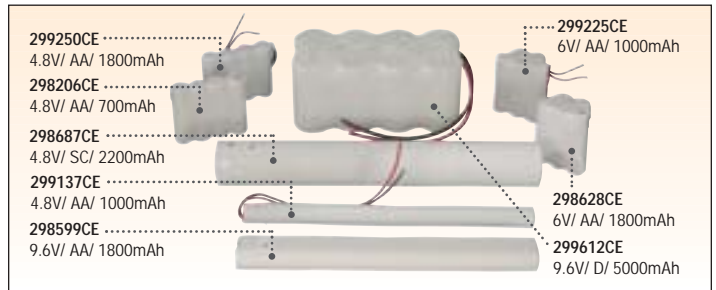
• AA single cell: 1.92"L x 0.56"Dia. (48.8mm x 14.2mm) • SC single cell: 1.65"L x 0.86"Dia. (41.9mm x 21.8mm) • D single cell: 2.36"L x 1.26"Dia. (59.9mm x 32.0mm)

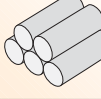

2.4 Volts				Solder Tabs				Lead Wires			
				Jameco Part No.	Pricing			Jameco Part No.	Pricing		
					1	10	25		1	10	25
	AA	NiCAD	700	298097CE	\$4.35	\$4.26	\$4.14	298935CE	\$5.35	\$5.22	\$5.09
	AA	NiCAD	1000	298337CE	5.35	4.87	4.33	299081CE	6.55	6.32	6.05
	AA	NiMH	1800	298484CE	9.39	8.54	7.59	299233CE	11.29	10.77	10.28
	SC	NiCAD	2200	298636CE	10.35	9.82	9.33	299381CE	11.29	10.77	10.28
	D	NiCAD	5000	298783CE	24.75	22.25	19.78	299532CE	24.75	22.25	19.78
	AA	NiCAD	700	298214CE	\$4.35	\$3.95	\$3.52	298960CE	\$5.29	\$5.22	\$5.09
	AA	NiCAD	1000	298361CE	5.39	4.90	4.35	299111CE	6.55	6.34	6.07
	AA	NiMH	1800	298513CE	9.49	8.55	7.59	299268CE	11.29	10.77	10.28
	SC	NiCAD	2200	298661CE	10.35	9.82	9.33	299410CE	11.29	10.77	10.28
	D	NiCAD	5000	298812CE	24.69	22.24	19.77	299567CE	24.69	22.24	19.77

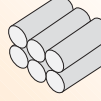
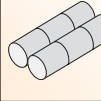
3.6 Volts				Solder Tabs				Lead Wires			
				Jameco Part No.	Pricing			Jameco Part No.	Pricing		
					1	10	25		1	10	25
	AA	NiCAD	700	298193CE	\$6.19	\$5.92	\$5.49	299090CE	\$9.35	\$8.61	\$7.84
	AA	NiCAD	1000	298345CE	8.05	7.31	6.50	299241CE	12.85	11.78	10.48
	AA	NiMH	1800	298492CE	11.89	11.30	10.47	299399CE	13.19	11.95	10.85
	SC	NiCAD	2200	298644CE	12.25	11.00	9.90	299541CE	36.19	32.65	29.48
	D	NiCAD	5000	298791CE	35.25	31.70	28.53				
	AA	NiCAD	700	298222CE	\$6.19	\$5.92	\$5.26	298978CE	\$8.75	\$8.07	\$7.35
	AA	NiCAD	1000	298370CE	8.09	7.34	6.53	299129CE	9.35	8.57	7.81
	AA	NiMH	1800	298521CE	10.35	9.82	9.33	299276CE	12.85	12.25	11.69
	SC	NiCAD	2200	298679CE	12.25	11.02	9.92	299428CE	13.19	11.97	10.87
	D	NiCAD	5000	298821CE	35.25	31.70	28.53	299575CE	36.19	32.65	29.48
	AA	NiCAD	700	298302CE	\$6.49	\$5.90	\$5.24	299057CE	\$6.49	\$5.90	\$5.24
	AA	NiCAD	1000	298450CE	8.05	7.32	6.50	299209CE	8.05	7.31	6.50
	AA	NiMH	1800	298601CE	13.09	11.78	10.48	299356CE	15.99	14.48	13.13
	SC	NiCAD	2200	298759CE	15.09	13.53	12.18	299508CE	16.05	14.48	13.13
	D	NiCAD	5000	298901CE	41.49	37.34	33.61	299655CE	37.09	33.37	29.66

4.8 Volts				Solder Tabs				Lead Wires			
				Jameco Part No.	Pricing			Jameco Part No.	Pricing		
					1	10	25		1	10	25
	AA	NiCAD	700	298206CE	\$7.79	\$7.08	\$6.37	298951CE	\$8.75	\$8.03	\$7.32
	AA	NiCAD	1000	298353CE	10.69	9.62	8.66	299102CE	11.65	10.57	9.61
	AA	NiMH	1800	298505CE	15.09	14.33	13.35	299250CE	16.05	15.28	14.56
	SC	NiCAD	2200	298652CE	15.45	13.90	12.51	299401CE	16.39	14.85	13.46
	D	NiCAD	5000	298804CE	44.49	40.05	36.04	299559CE	45.45	41.00	36.99
	AA	NiCAD	700	298249CE	\$7.79	\$7.06	\$6.36	298994CE	\$8.69	\$8.01	\$7.31
	AA	NiCAD	1000	298396CE	10.69	9.60	8.65	299145CE	11.65	10.55	9.60
	AA	NiMH	1800	298548CE	15.09	14.32	13.30	299292CE	16.05	15.28	14.56
	SC	NiCAD	2200	298695CE	15.45	13.64	12.51	299444CE	16.39	14.85	13.46
	D	NiCAD	5000	298847CE	44.35	39.89	35.90	299591CE	45.29	40.84	36.85
	AA	NiCAD	700	298231CE	\$7.85	\$7.12	\$6.40	298986CE	\$8.75	\$8.07	\$7.35
	AA	NiCAD	1000	298388CE	10.69	9.62	8.66	299137CE	11.65	10.57	9.61
	AA	NiMH	1800	298530CE	11.89	11.30	10.74	299284CE	16.05	15.28	14.56
	SC	NiCAD	2200	298687CE	15.45	13.91	12.52	299436CE	16.39	14.86	13.47
	D	NiCAD	5000	298839CE	44.49	40.02	36.02	299583CE	45.45	40.97	36.97

4.8 Volts				Solder Tabs				Lead Wires			
				Jameco Part No.	Pricing			Jameco Part No.	Pricing		
					1	10	25		1	10	25
	AA	NiCAD	700	298273CE	\$7.79	\$7.08	\$6.37	299022CE	\$8.75	\$8.03	\$7.32
	AA	NiCAD	1000	298425CE	10.69	9.62	8.66	299170CE	11.65	10.57	9.61
	AA	NiMH	1800	298572CE	15.09	14.32	13.34	299321CE	16.05	15.28	14.56
	SC	NiCAD	2200	298724CE	15.45	13.90	12.51	299479CE	16.39	14.85	13.46
	D	NiCAD	5000	298871CE	44.49	40.03	36.03	299621CE	45.45	40.98	36.98
	AA	NiCAD	700	298311CE	\$8.35	\$7.57	\$6.81	299065CE	\$8.65	\$7.85	\$6.97
	AA	NiCAD	1000	298468CE	10.79	9.73	8.65	299217CE	12.19	11.08	10.06
	AA	NiMH	1800	298610CE	16.95	15.23	13.71	299364CE	16.65	14.97	14.22
	SC	NiCAD	2200	298767CE	16.95	15.23	13.71	299516CE	17.89	16.18	14.66
	D	NiCAD	5000	298919CE	47.19	42.46	40.34	299663CE	48.15	43.41	39.40



6.0 Volts				Solder Tabs				Lead Wires			
				Jameco Part No.	Pricing			Jameco Part No.	Pricing		
					1	10	25		1	10	25
	AA	NiCAD	700	298329CE	\$9.25	\$8.00	\$7.60	299073CE	\$10.29	\$8.95	\$8.55
	AA	NiCAD	1000	298476CE	11.25	10.13	9.11	299225CE	13.25	11.08	10.06
	AA	NiMH	1800	298628CE	18.85	16.07	15.27	299372CE	19.75	17.02	16.22
	SC	NiCAD	2200	298775CE	18.79	15.99	14.39	299524CE	19.75	16.94	15.34
	D	NiCAD	5000	298927CE	52.85	44.92	42.67	299680CE	53.79	45.87	43.57

7.2 Volts				Solder Tabs				Lead Wires			
				Jameco Part No.	Pricing			Jameco Part No.	Pricing		
					1	10	25		1	10	25
	AA	NiCAD	700	298257CE	\$11.75	\$10.58	\$9.53	299006CE	\$12.75	\$11.53	\$10.59
	AA	NiCAD	1000	298409CE	15.99	14.40	12.96	299153CE	16.95	15.35	13.91
	AA	NiMH	1800	298556CE	20.29	18.25	16.43	299305CE	21.25	19.20	17.38
	SC	NiCAD	2200	298708CE	23.15	20.81	18.73	299452CE	24.09	21.76	19.68
	D	NiCAD	5000	298855CE	66.49	59.83	59.09	299604CE	67.45	60.78	59.09

	AA	NiCAD	700	298281CE	\$11.79	\$10.59	\$9.54	299031CE	\$12.75	\$11.54	\$10.49
	AA	NiCAD	1000	298433CE	16.05	14.41	12.97	299188CE	16.95	15.36	13.92
	AA	NiMH	1800	298581CE	20.29	18.25	16.43	299330CE	21.25	19.20	17.38
	SC	NiCAD	2200	298732CE	23.15	20.82	18.74	299487CE	24.09	21.77	19.69
	D	NiCAD	5000	298880CE	66.49	59.83	59.29	299639CE	67.45	60.78	59.29

Solder Tabs				Lead Wires							
Cell				Jameco	Pricing			Jameco	Pricing		
	AA	NiCAD	700	298281CE	\$11.79	\$10.59	\$9.54	299031CE	\$12.75	\$11.54	\$10.49
	AA	NiCAD	1000	298433CE	16.05	14.41	12.97	299188CE	16.95	15.36	13.92
	AA	NiMH	1800	298581CE	20.29	18.25	16.43	299330CE	21.25	19.20	17.38
	SC	NiCAD	2200	298732CE	23.15	20.82	18.74	299487CE	24.09	21.77	19.69
	D	NiCAD	5000	298880CE	66.49	59.83	59.29	299639CE	67.45	60.78	59.29

Lithium, Lithium Ion and NiCd Batteries

Applications: personal computers, workstations, test equipment, feature telephones, copiers, fax machines, video scramblers/descramblers and remotes.



Fig. 1



Fig. 2



Fig. 3



Fig. 4



Fig. 5



Fig. 6



Fig. 7



Fig. 8



Fig. 9



Fig. 10



Fig. 11



Fig. 12



Fig. 13



Fig. 14



Fig. 15



Fig. 16



Fig. 17



Fig. 18



Fig. 19



Fig. 20



Fig. 21



Fig. 22



Fig. 23



Fig. 24



Fig. 25



Fig. 26



Fig. 27



Fig. 28



Fig. 29



Fig. 30



Fig. 31



Fig. 32

Lithium & Lithium Ion

SALE

Part No.	Cross Ref. No.	Fig.	Size	Volts	mAh	Terminals/Connection	Dimensions	1	10	25
240258CE	CR123A	1	—	3	1300	Photo/computer	1.36"L x 0.65"Dia.	\$2.65	\$2.45	\$2.35
33371CE	TL5101P	2	1/2AA	3.6	850	Barrel w/ leads (clock/mem.)	0.93"L x 0.56"Dia.	5.79	5.27	4.45
33398CE	TL5104P	3	AA	3.6	1900	Barrel w/ leads (clock/mem.)	1.88"L x 0.56"Dia.	5.95	5.49	5.19
146114CE	TL2100S	4	AA	3.6	1900	Barrel pressure (clock/mem.)	1.91"L x 0.56"Dia.	6.95	6.29	5.65
240186CE	CR1616	—	Coin Cell	3	55	Clock/memory/watch	0.07"Dia. x 0.61"Th.	.62	.56	.45
240207CE	CR2016	—	Coin Cell	3	75	Clock/memory/watch	0.07"Dia. x 0.79"Th.	.34	.31	.24
240215CE	CR2025	—	Coin Cell	3	150	Clock/memory/watch	0.10"Dia. x 0.78"Th.	.29	.27	.26
11789CE	CR2325	5	Coin Cell	3	165	Clock/memory/watch	0.91"Dia. x 0.13"Th.	1.65	1.47	1.25
252232CE	BR2325/1VG	6	Coin Cell	3	175	Vertical, PC mount	1.00"Dia. x 0.90"Th.	1.49	1.39	1.35
14162CE	CR2032	—	Coin Cell	3	180	Clock/memory/watch	0.79"Dia. x 0.13"Th.	1.25	1.12	.84
240223CE	CR2335	—	Coin Cell	3	300	Clock/memory/watch	0.14"Dia. x 0.92"Th.	.99	.89	.71
240231CE	CR2450	—	Coin Cell	3	500	Clock/memory/watch	0.18"Dia. x 0.97"Th.	1.09	.93	.69
126754CE	TL5101S	7	Sub-AA	3.6	850	Macintosh®	0.95"L x 0.56"Dia.	6.95	6.29	5.65
240266CE	ER14250	8	Sub-AA	3.6	1000	Consumer tip	1.00"L x 0.55"Dia.	3.99	3.89	3.81
263898CE	ER14250	9	Sub-AA	3.6	1000	With axial leads	1.00"L x 0.55"Dia.	4.29	4.11	3.90
263978CE	ER14335	9	Sub-AA	3.6	1450	With axial leads	1.30"L x 0.55"Dia.	4.79	4.62	4.36
263951CE	ER14335	10	Sub-AA	3.6	1450	With solder tabs	1.30"L x 0.55"Dia.	4.59	4.43	4.19
240282CE	ER14335	11	Sub-AA	3.6	1450	Consumer tip	1.30"L x 0.55"Dia.	4.15	3.74	3.54
263943CE	ER14505	12	AA	3.6	2100	With axial leads	2.00"L x 0.57"Dia.	5.35	4.99	4.70
240303CE	ER14505	13	AA	3.6	2400	Consumer tip	2.00"L x 0.55"Dia.	5.19	4.85	4.55
263935CE	ER14505	14	AA	3.6	2100	With solder tabs	2.00"L x 0.55"Dia.	4.99	4.75	4.52
240320CE	ER17335	15	Sub-A	3.6	1450	Consumer tip	1.30"L x 0.67"Dia.	5.25	4.73	3.54
264217CE	ER17335	—	Sub-A	3.6	1450	With axial leads	1.30"L x 0.67"Dia.	5.55	4.99	4.59
263986CE	ER26500	—	C	3.6	8500	With axial leads	2.00"L x 1.02"Dia.	13.19	12.42	11.67
240160CE	ER26500	16	C	3.6	8500	Consumer tip	2.00"L x 1.02"Dia.	11.95	11.50	11.05
263994CE	ER34615	—	D	3.6	16,500	With axial leads	2.40"L x 1.34"Dia.	16.65	15.68	14.73
240151CE	ER34615	17	D	3.6	16,500	Consumer tip	2.40"L x 1.34"Dia.	15.05	14.49	13.95
244646CE	UR18650H1	18	—	3.6	2200	Flat top lithium ion (rechargeable)	2.60"L x 0.71"Dia.	17.55	15.79	14.21

NiCd – Rechargeable

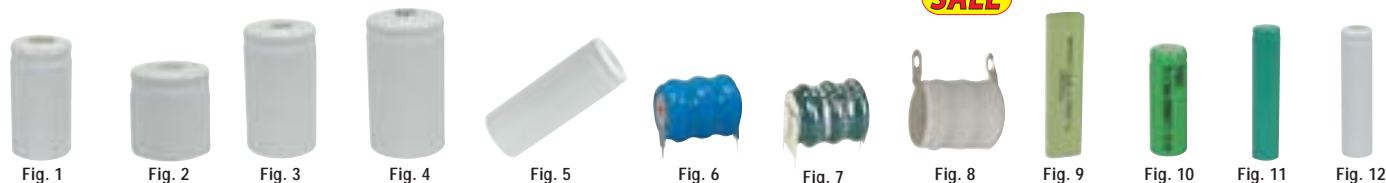
SALE

Part No.	Cross Ref. No.	Fig.	Size	Volts	mAh	Terminals/Connection	Dimensions	1	10	25
244662CE	AAA-240	19	AAA	1.2	240	Flat top	1.70"L x 0.40"Dia.	\$1.69	\$1.52	\$1.22
244540CE	AAA-240-CT	20	AAA	1.2	240	Consumer tip	1.70"L x 0.40"Dia.	1.89	1.85	1.80
244380CE	2/3AA-320	21	2/3AA	1.2	320	Flat top	1.10"L x 0.55"Dia.	1.19	1.07	.86
244443CE	4/5AA-600	22	4/5AA	1.2	600	Flat top	1.70"L x 0.55"Dia.	.99	.89	.80
244486CE	AA-600	23	AA	1.2	600	Flat top	1.90"L x 0.55"Dia.	1.25	1.22	1.19
244507CE	AA-1000	23	AA	1.2	1000	Flat top	1.90"L x 0.55"Dia.	2.39	2.15	1.94
261657CE	AA-700-CT	24	AA	1.2	700	Consumer tip	1.90"L x 0.55"Dia.	1.37	1.25	.96
244515CE	AA-1000-CT	24	AA	1.2	1000	Consumer tip	1.90"L x 0.55"Dia.	2.65	2.43	2.33
244355CE	1/3A-250	25	1/3A	1.2	250	Flat top	0.65"L x 0.65"Dia.	1.19	1.07	.86
244371CE	2/3A-650	26	2/3A	1.2	650	Flat top	1.10"L x 0.65"Dia.	1.59	1.43	1.29
244603CE	2/3A-100HD	26	2/3A	1.2	1100	Flat top	1.10"L x 0.65"Dia.	1.79	1.61	1.48
244427CE	4/5A-1100	27	4/5A	1.2	1100	Flat top	1.70"L x 0.65"Dia.	1.49	1.34	1.30
244574CE	SC-1500	28	Sub-C	1.2	1500	Flat top	1.70"L x 0.89"Dia.	2.15	1.98	1.87
244953CE	SC-1500HT	28	Sub-C	1.2	1500	Flat top, high temperature	1.70"L x 0.89"Dia.	2.15	1.94	1.74
244654CE	SC-1900	28	Sub-C	1.2	1900	Flat top	1.70"L x 0.89"Dia.	3.69	3.23	3.08
244401CE	2/3SC-700	29	2/3SC	1.2	700	Flat top	1.00"L x 0.89"Dia.	2.85	2.56	2.05
244451CE	4/5SC-1250	—	4/5SC	1.2	1250	Flat top	1.30"L x 0.89"Dia.	2.85	2.56	2.35
244460CE	5/4SC-2300	—	5/4SC	1.2	2300	Flat top	1.90"L x 0.89"Dia.	5.45	4.90	3.92
244363CE	1/3C-700	—	1/3C	1.2	700	Flat top	0.87"L x 1.00"Dia.	2.35	2.12	1.69
244339CE	1/2C-800	30	1/2C	1.2	800	Flat top	0.95"L x 1.00"Dia.	2.59	2.33	2.10
244671CE	C-2000	31	C	1.2	2000	Flat top	1.90"L x 1.00"Dia.	4.25	3.82	3.06
244523CE	C-2200-CT	32	C	1.2	2200	Consumer tip	1.90"L x 1.00"Dia.	4.25	3.96	3.92
244531CE	C-2500-CT	32	C	1.2	2500	Consumer tip	1.90"L x 1.00"Dia.	4.65	4.19	3.77

Save 10% or more on most batteries!

NiCd and NiMH Batteries

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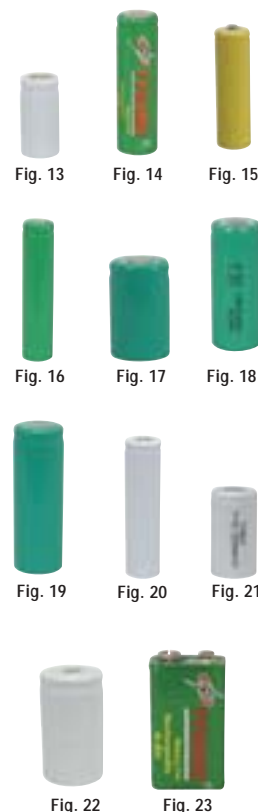
NiCd – Rechargeable (Continued)

Part No.	Cross Ref. No.	Figure	Size	Volts	mAh	Terminals/Connection	Dimensions	1	10	25
244961CE	C-2500HT	1	C	1.2	2500	Flat top, high temperature	1.90"L x 1.00"Dia.	\$4.75	\$4.28	\$3.85
244689CE	C-2500	1	C	1.2	2500	Flat top	1.90"L x 1.00"Dia.	4.65	4.19	3.35
244347CE	1/2D-2200	2	1/2 D	1.2	2200	Flat top	1.40"L x 1.30"Dia.	3.89	3.50	3.15
244566CE	2/3D-2800	—	2/3 D	1.2	2800	Flat top	1.70"L x 1.30"Dia.	4.75	4.28	3.42
244697CE	D-5000	3	D	1.2	5000	Flat top	2.40"L x 1.30"Dia.	6.99	6.29	5.66
244558CE	D-5000-CT	4	D	1.2	5000	Consumer tip	2.40"L x 1.30"Dia.	7.79	7.60	7.45
244419CE	3/2D(F)-8000	5	F	1.2	8000	Flat top	3.45"L x 1.30"Dia.	18.49	16.64	13.31
126720CE	351FT	6	—	3.6	60	2-lead (pin), barrel	0.72"L x 1.28"Dia.	4.49	4.05	3.65
119116CE	3/V60R	7	—	3.6	60	3-lead (pin), barrel	0.74"L x 0.61"Dia.	3.75	3.39	3.05
101653CE	NA101-1	8	—	3.6	60	2-lead (eyelet), barrel	0.72"L x 0.61"Dia.	5.49	4.95	3.95

NiMH – Rechargeable

SALE

Part No.	Cross Ref. No.	Figure	Size	Volts	mAh	Terminals/Connection	Dimensions	1	10	25
244937CE	PRIZ-F6(48)-700	—	—	1.2	700	Flat top-prismatic	1.86"L x 0.65"W x 0.23"T	\$2.85	\$2.56	\$2.31
244945CE	PRIZ-7/5F6-1100	9	—	1.2	1100	Flat top-prismatic	2.63"L x 0.65"W x 0.23"T	3.75	3.38	3.04
244582CE	2/3AAA-300	10	2/3 AAA	1.2	300	Flat top	1.11"L x 0.40"Dia.	1.34	1.21	1.09
244785CE	5/4AAA-750	11	5/4 AAA	1.2	750	Flat top	2.00"L x 0.40"Dia.	2.29	2.06	1.65
261665CE	AAA-700FT	12	AAA	1.2	700	Flat top	1.70"L x 0.40"Dia.	2.25	1.99	1.91
244814CE	AA-1800	14	AA	1.2	1800	Flat top	1.90"L x 0.55"Dia.	2.35	2.12	1.99
244822CE	AA-1800-CT	15	AA	1.2	1800	Consumer tip	1.90"L x 0.55"Dia.	2.35	2.12	1.99
244831CE	4/3AA-1900	16	4/3 AA	1.2	1900	Flat top	2.60"L x 0.55"Dia.	6.19	5.57	4.46
244857CE	2/3A-1100	17	2/3 A	1.2	1100	Flat top	1.10"L x 0.65"Dia.	3.25	2.92	2.63
244864CE	4/5A-1800	18	4/5 A	1.2	1800	Flat top	1.70"L x 0.65"Dia.	2.85	2.56	2.36
244970CE	A-2200	19	A	1.2	2200	Flat top	1.90"L x 0.65"Dia.	3.35	3.02	2.78
244873CE	4/3A-2500	20	4/3 A	1.2	2500	Flat top	2.60"L x 0.65"Dia.	4.79	4.31	4.17
244890CE	SC-2900-HD	21	Sub-C	1.2	2900	Flat top, high discharge	1.70"L x 0.90"Dia.	6.49	6.04	5.89
244902CE	D-9000	22	D	1.2	9000	Flat top	2.40"L x 1.30"Dia.	19.29	17.36	13.89
244911CE	D-9000-CT	22	D	1.2	9000	Consumer tip	2.40"L x 1.30"Dia.	21.45	17.54	16.08
244620CE	9V-200	23	9V	9	200	Snaps	1.94"L x 0.65"Dia.	7.79	6.92	6.22



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Long-Lasting Rechargeable NiMH Batteries

Why buy & throw away hundreds of batteries? Now you can reuse longer-lasting, money saving NiMH rechargeable batteries instead! They feature twice the power of NiCd batteries, so they're ideal for power-hungry devices like digital cameras and camcorders.

NiMH Batteries

Part No.	Description	1	10	25	100
231095CE	2x AAA, 600mAh	\$6.95	\$6.25	\$5.65	\$5.05
231087CE	4x AA, 1600mAh	13.95	12.55	11.29	10.19
231116CE	2x C, 3000mAh	12.49	11.24	10.12	9.11
231124CE	2x D, 7000mAh	17.99	16.19	12.95	10.96
231108CE	1x "9V", 150mAh	8.39	7.95	7.59	7.19



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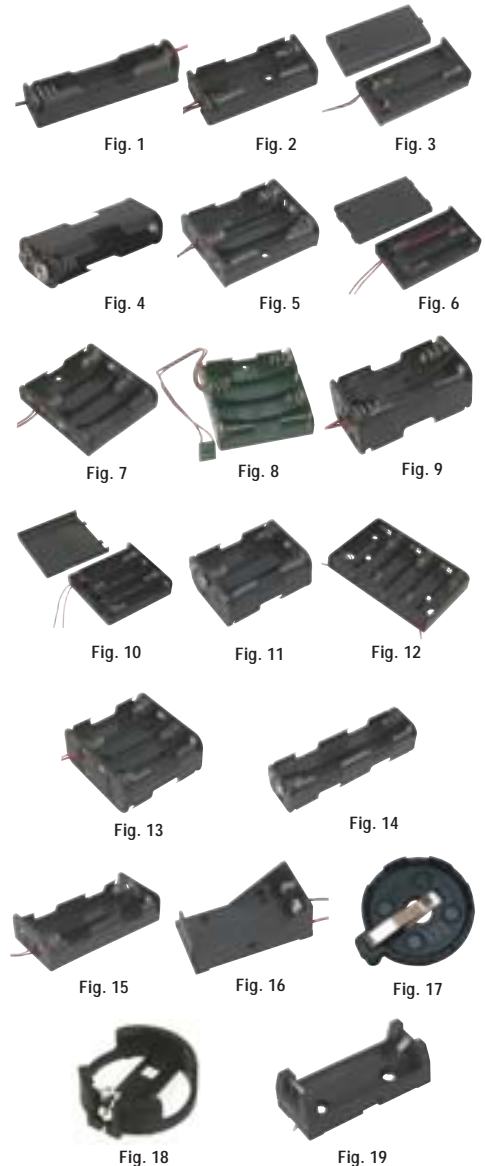
Battery Holders

SALE

Eliminate battery mounting problems in portable DC power applications and products. These holders are made from special materials that maintain retention properties longer than conventional holders. They can come with leads, or attached to battery holders.

Part No.	Cross Ref. No.	Fig.	No. of Cells	Connector	Sides	Features	1	10	100	500
216071CE	BH-311-2A	1	1-AA	Wires	Single		\$.69	\$.62	\$.56	\$.46
216080CE	BH-321-2A	2	2-AA	Wires	Single		.69	.62	.56	.50
216098CE	BH-321-4A	2	2-AA	Wires	Single	With mounting tabs	.59	.53	.42	.32
216101CE	SBH-321-2A	3	2-AA	Wires	Single	With cover, no switch	.59	.53	.42	.32
216119CE	SBH-321-1AS	3	2-AA	Wires	Single	With cover and switch	.79	.71	.64	.54
216127CE	BH-322-1B	4	2-AA	Snaps	Dual		.59	.53	.42	.32
216135CE	BH-331-A	5	3-AA	Wires	Single		.89	.79	.72	.65
216143CE	SBH-331-AS	6	3-AA	Wires	Single	With cover and switch	.99	.79	.71	.53
216151CE	BH-341-2A	7	4-AA	Wires	Single		.99	.89	.84	.79
105857CE	*	8	4-AA	Wires	Single	Wires with connector	.89	.80	.72	.60
216178CE	BH-343-1A	9	4-AA	Wires	Dual		.65	.55	.47	.35
216186CE	SBH-341-1AS	10	4-AA	Wires	Single	With cover and switch	1.09	.89	.85	.75
216194CE	BH-341-2B	7	4-AA	Snaps	Single		.35	.31	.29	.26
216207CE	BH-343-1B	9	4-AA	Snaps	Dual		.45	.38	.35	.32
216215CE	BH-363-A	11	6-AA	Wires	Dual		.75	.68	.61	.55
216223CE	BH-364-A	12	6-AA	Wires	Single		.95	.85	.69	.51
216231CE	BH-363-B	11	6-AA	Snaps	Dual		.99	.75	.69	.65
216240CE	BH-383-A	13	8-AA	Wires	Dual		1.09	.98	.78	.59
216258CE	BH-382-B	14	8-AA	Snaps	Dual		1.19	1.07	.86	.64
216266CE	BH-383-B	13	8-AA	Snaps	Dual		1.19	.99	.86	.64
216274CE	BH-411-1A	1	1-AAA	Wires	Single		.29	.18	.16	.15
216282CE	BH-421-1A	2	2-AAA	Wires	Single		.69	.59	.54	.49
216291CE	SBH-421-AS	3	2-AAA	Wires	Single	With cover and switch	.33	.30	.27	.25
216303CE	BH-431-1A	5	3-AAA	Wires	Single		.39	.35	.32	.29
216311CE	SBH-431-1AS	6	3-AAA	Wires	Single	With cover and switch	.79	.69	.59	.49
216320CE	BH-441-1A	7	4-AAA	Wires	Single		.79	.71	.57	.43
216338CE	SBH-441-AS	10	4-AAA	Wires	Single	With cover and switch	1.25	1.12	.90	.68
216346CE	BH-211-A	1	1-C	Wires	Single		.55	.50	.40	.30
216354CE	BH-221-A	2	2-C	Wires	Single		.99	.89	.71	.53
216362CE	BH-242-1A	15	4-C	Wires	Single		1.39	1.29	1.09	.99
216371CE	BH-111-1A	1	1-D	Wires	Single		.69	.62	.50	.37
216389CE	BH-121-1A	2	2-D	Wires	Single		.89	.80	.72	.60
216397CE	BH-121-1B	2	2-D	Snaps	Single		.49	.46	.42	.38
216400CE	BH-142-A	15	4-D	Wires	Single		1.19	1.07	.96	.80
216418CE	BH-143-1A	7	4-D	Wires	Single		1.15	.89	.81	.74
216426CE	BH-9V-A	16	1-9V	Wires	Single		.79	.69	.64	.59
216434CE	BH-511-1A	1	1-N	Wires	Single		.59	.53	.42	.32
38543CE	2S2325	17	1-CR2354 or 2-CR2325	PC Mount	Coin cell		.99	.89	.71	.53
355434CE	17002-00603	18	1-CR2032	PC Mount	Coin cell		.63	.58	.49	.47
Other Manufacturers — Limited Great Deals										
237315CE	1029	19	1-2/3AA	PC Mount	Single		\$.75	\$.69	\$.59	\$.55
236996CE	103	17	1-CR2032	PC Mount	Coin cell		.75	.68	.54	.40

* Battery holder used in many personal computers



Compact Battery Tester

Simply lift the swivel arm of this battery tester and place your battery between the contacts and it will provide you a voltage measurement of your batteries. Tests AAA, AA, C, D, 9V, and button cell batteries.

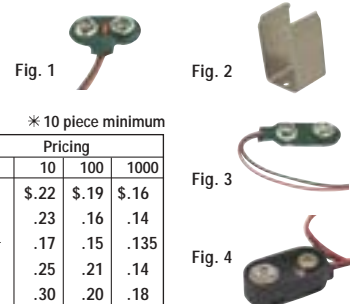


SALE

Part No.	Description	1	5
239556CE	Compact battery tester	\$4.49	\$3.99

"9-Volt" Battery Snaps and Clip

- Use with standard "9 volt" batteries
- Fully insulated; contacts are nickel-plated brass
- Leads are color-coded, stripped and pre-tinned
- Snap: male outer dia. = 0.225" • Female inner dia.: 0.215"



Part No.	Fig.	Description	Dimensions (in.)			Pricing			
			L	W	H	1	10	100	1000
11279CE	1	3", 26 AWG, 6 prong battery snap	1.0	.50	—	\$.25	\$.22	\$.19	\$.16
105793CE	2	Battery holder clip	.63	.71	1.2	.28	.23	.16	.14
109153CE	3	6", 26 AWG, 6 prong battery snap	1.0	.50	—	* .17	.15	.15	.135
101469CE	3	10", 26 AWG, 6 prong battery snap	1.0	.50	—	.29	.25	.21	.14
216451CE	4	6", 26 AWG, 6 prong battery snap	1.0	.50	—	.34	.30	.20	.18

* 10 piece minimum

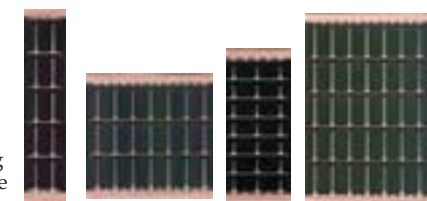
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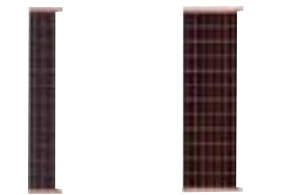
227993CE 228013CE 228030CE 228064CE

Part No.	Product No.	Operating Voltage (V)	Operating Current (mA)	Size (L x W x T)		Pricing		
				Inches	mm	1	10	100
227985CE	SP3-37	3.0	22	2.5 x 1.5 x .01	64 x 37 x 0.2	\$3.89	\$3.49	\$3.19
227993CE	TX 3-25	3.0	25	4.5 x 1.0 x .01	114 x 25 x 0.2	2.89	2.45	1.99
171061CE	MP3-37	3.0	50	4.5 x 1.5 x .01	114 x 37 x 0.2	5.89	5.29	4.99
228013CE	MPT3.6-75	3.6	50	2.9 x 3.0 x .01	74 x 75 x 0.2	8.89	7.99	7.19
228030CE	SP4.2-37	4.2	22	3.3 x 1.5 x .01	84 x 37 x 0.2	5.89	5.29	4.79
228048CE	MPT4.8-75	4.8	50	3.7 x 3.0 x .01	97 x 75 x 0.2	11.89	10.69	9.59
228056CE	MPT4.8-150	4.8	100	3.7 x 5.9 x .01	94 x 150 x 0.2	22.89	20.59	18.49
228064CE	MPT6-75	6.0	50	4.5 x 3.0 x .01	114 x 75 x 0.2	13.89	12.49	11.29
228072CE	MPT6-150	6.0	100	4.5 x 5.9 x .01	114 x 150 x 0.2	27.89	24.99	22.49
228099CE	MP7.2-150	7.2	200	10.0 x 5.9 x .02	253 x 150 x 0.6	39.89	37.99	34.99
228101CE	MPT15-75	15.4	50	10.0 x 3.0 x .02	253 x 75 x 0.6	26.89	24.29	21.99
228110CE	MPT15-150	15.4	100	10.0 x 5.9 x .02	253 x 150 x 0.6	44.89	42.99	39.99

Remote Control Aircraft Series

Designed to be easily integrated with remote control aircraft or anywhere weight is critical. These modules are very lightweight. Solder can be applied from the back of the module via the extended copper tape, and the modules have an extra edge seal for protection. We offer versions with and without a strong pressure-sensitive adhesive for simple bonding.

Blue = Limited Quantity Available



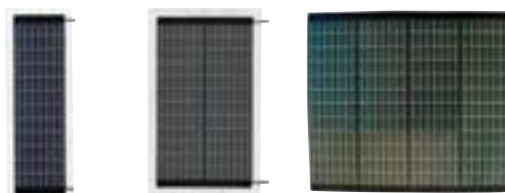
228136CE 228144CE/228152CE

Part No.	Product No.	Operating Voltage (V)	Operating Current (mA)	Size (L x W x T)		Pricing		
				Inches	mm	1	10	100
228136CE	RC7.2-37PSA*	7.2	50	10.6 x 2.2 x .01	270 x 55 x 0.2	\$19.39	\$17.49	\$15.79
228144CE	RC7.2-75	7.2	100	10.6 x 3.5 x .01	270 x 90 x 0.2	29.89	26.99	24.29
228152CE	RC7.2-75PSA*	7.2	100	10.6 x 3.5 x .01	270 x 90 x 0.2	32.89	29.79	26.79

*PSA = Pressure Sensitive Adhesive

WeatherPro Series

The right choice for permanent outdoor applications that are directly exposed to the elements. These modules feature rugged construction, a UV-stabilized surface, an extra edge seal for weather protection, and tin-coated copper leads that extend from the module.



228161CE/228187CE 228179CE/228195CE 228208CE

Part No.	Product No.	Operating Voltage (V)	Operating Current (mA)	Size (L x W x T)		Pricing		
				Inches	mm	1	10	100
228161CE	P7.2-75	7.2	100	10.3 x 3.9 x .04	270 x 100 x 1.1	\$39.89	\$36.99	\$33.99
228179CE	P7.2-150	7.2	200	10.3 x 6.9 x .04	270 x 175 x 1.1	59.89	54.99	49.99
228187CE	PT15-75	15.4	50	10.3 x 3.9 x .04	270 x 100 x 1.1	39.89	36.99	33.99
228195CE	PT15-150	15.4	100	10.3 x 6.9 x .04	270 x 175 x 1.1	59.89	56.99	52.99
228208CE	PT15-300	15.4	200	10.3 x 12.8 x .04	270 x 325 x 1.1	99.89	94.99	89.99

Super Bright, Super Reliable LED Flashlight

Containing space-age solid-state circuitry, batteries last 14x longer than conventional flashlights. Its super bright white LEDs will last at least 11 years.

- Waterproof, designed for all weather conditions
- One month continuous operation using three "D" cell batteries (not included, P/N 215845CE, pg 206)
- Rubber over-molding • Weight: 0.8 lbs.

Part No.	Cross Ref. No.	LEDs	Length	1	10
215677CE	LW-4000	10	10.6"	\$63.95	\$60.79

Color Code Legend
New Sale Lower\$ QtySave

Mini-Panel Solar Cells

Ready to Use! No Soldering

Encapsulated mini-panels utilize solar cells similar to those that power our satellites in space, yet they are safe and simple to use.

Mini-panels allow for handling without the normal breakage and cell damage associated with fragile solar cells. 6" red/black lead wires attached. Modules may be connected to create different outputs.

• Size: 3.8"L x 2.5"W • Connection: lead



200221CE

Part No.	Cross Ref. No.	VDC @ mA	Size (LxW)	1	10
200205CE	SOL2	0.5 @ 800	2.6" x 3.7"	\$7.95	\$7.15
200221CE	SOL4	2.0 @ 200	3.0" x 3.7"	8.99	7.99
215319CE	4-3.0-100	3.0 @ 100	3.8" x 2.5"	14.29	12.89
215327CE	4-6.0-50	6.0 @ 50	3.8" x 2.5"	15.79	14.39

Trick Trickle, No Drop



Jameco ideas just never stop! No one needs to tell you that solar cells can be used to charge outdoor projects in many sunny parts of the world. But even self-charging systems can benefit from solar cells!

If you're designing systems for occasional-use applications like field-based monitoring and control systems, boats, recreational vehicles, etc., remember that leakage current, even in your newest rechargeable batteries, will deplete them over time.

A simple trickle charger can prevent resulting surprises. And when external power sources are not available, solar cells can provide ample current to keep your batteries fresh and ready to go! Plus, their relatively low cost is great insurance that can prevent mission-critical failures.

Practical Practices
Money Saving Tips for the Engineer

Free Technical Support

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Just call us! 1-800-831-4242





Serial LCD Displays

• For detailed specification sheets, please visit www.Jameco.com. • One year warranty

Scott Edwards Electronics, Inc.

Scott Edwards ILM-216L

• 16 x 2 characters • 2.8" x 1.0" display



150990CE

Matrix Orbital LK162-12

• 16 x 2 characters • 2.5" x 0.7" display



174166CE

Scott Edwards BPI-216N

• 16 x 2 characters • 2.8" x 1.0" display



133129CE

Matrix Orbital VK202-25

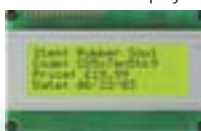
• 20 x 2 characters w/ keypad interface • 2.8" x 0.5" display



281359CE

Matrix Orbital LCD2041

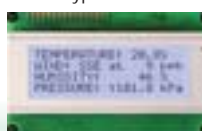
• 20 x 4 characters • 3.0" x 1.0" display



150957CE

Matrix Orbital LK204-25

• 20 x 4 characters w/ keypad interface • 3.0" x 1.0" display



157323CE

Matrix Orbital GLK12232-25-SM

• 20 x 4 characters with graphics • 2.4" x 0.7" display



281391CE

Matrix Orbital GLK12232-25-WBL

• 20 x 4 characters with graphics • 3.3" x 1.4" display



281404CE

Matrix Orbital VFD2041

• 20 x 4 characters • 3.0" x 1.0" display



303554CE

Scott Edwards SGX-120L

• 20 x 4 characters with graphics • 2.6" x 1.1" display



158166CE

Matrix Orbital VK204-25

• 20 x 4 characters • 2.8" x 0.8" display



281375CE

Scott Edwards BPP-440L

• 40 x 4 characters • 6.7" x 1.7" display



136485CE

Matrix Orbital GLC24064

• 40 x 8 characters with graphics • 5.2" x 1.5" display



174182CE

Matrix Orbital GLK24064-25

• 40 x 8 characters with graphics • 5.0" x 1.3" display



281412CE

Recommended Power Supply
(P/N 164101CE)
for these LCD Displays...
See page 197.



Part No.	Manufacturer	Product No.	Characters x Lines	Serial Input (bps)	Input Voltage	Backlight	Notes*	Module Size (W"xH"xD")	Display Size (W"xH")	Pricing		
										1	10	25
150990CE	Scott Edwards	ILM-216L	16 x 2	1200 - 9600	4.8V-5.5V @ 5mA	Y	1,2,5	3.2x2.0x0.5	2.8 x 1.0	\$48.95	\$44.09	\$39.99
174166CE	Matrix Orbital	LK162-12	16 x 2	1200 - 19,200	5.0V @ 9mA	Y	1,3,4,6	3.2x1.5x0.8	2.5 x 0.7	51.99	49.99	47.99
133129CE	Scott Edwards	BPI-216N	16 x 2	2400 or 9600	4.8V - 5.5V @ 3mA	N	1, 2, 11	3.1x1.4x0.7	2.8 x 1.0	59.95	53.99	48.99
281359CE	Matrix Orbital	VK202-25	20 x 2 w/ keypad interface	1200 - 19,200	5.0V @ 130mA	Y	1,7,10	4.6x1.5x0.9	2.8 x 0.5	88.99	87.97	84.47
150957CE	Matrix Orbital	LCD2041	20 x 4	1200 - 19,200	5.0V @ 10mA	Y	1,3,4,6	3.9x2.4x0.7	3.0 x 1.0	57.99	55.99	54.99
157323CE	Matrix Orbital	LK204-25	20 x 4 w/ keypad interface	1200 - 19,200	5.0V @ 16mA	Y	1,3,4,6	3.7x2.4x1.1	3.0 x 1.0	77.99	75.99	73.99
281391CE	Matrix Orbital	GLK12232-25-SM	20 x 4 w/ graphics	9600 - 115,000	5.0V @ 250mA	Y	1,8	3.4x1.4x0.5	2.4 x 0.7	68.99	67.99	65.49
281404CE	Matrix Orbital	GLK12232-25-WBL	20 x 4 w/ graphics	9600 - 115,000	5.0V @ 20mA	Y	1,8	3.9x2.4x0.4	3.3 x 1.4	74.99	73.99	71.19
303554CE	Matrix Orbital	VFD2041	20 x 4	1200 - 19,200	5.0V @ 20mA	Y	1,4,10	3.9x2.4x1.1	3.0 x 1.0	105.99	102.99	99.99
158166CE	Scott Edwards	SGX-120L	20 x 4 w/ graphics	2400 or 9600	9V bat. or 5.0V@45mA	Y	1,2,5	3.1x1.9x0.8	2.6 x 1.1	119.95	107.99	103.00
281375CE	Matrix Orbital	VK204-25	20 x 4	1200 - 19,200	5.0V @ 220mA	Y	1,4,10	3.8x2.4x1.0	2.8 x 0.8	114.49	113.50	108.73
136485CE	Scott Edwards	BPP-440L	40 x 4	1200 - 9600	5.0V @ 10mA	Y	1, 2, 11	7.5x2.2x0.9	6.7 x 1.7	149.95	142.45	136.49
174182CE	Matrix Orbital	GLC24064	40 x 8 w/ graphics	1200 - 19,200	5.0V @ 31mA	Y	1,3,6	7.1x2.6x0.7	5.2 x 1.5	165.99	161.69	157.49
281412CE	Matrix Orbital	GLK24064-25	40 x 8 w/ graphics	9600 - 115,000	5.0V @ 20mA	Y	1,9	7.1x2.6x1.1	5.0 x 1.3	192.99	192.00	183.30

* 1. For power supply, recommend P/N 164101CE, pg 197.

2. Includes instruction codes for character generation, cursor control, printing, etc. (Examples for Stamps in PBASIC included.)

3. Manual and software included

4. Connect 16 modules using the same two wire interface

5. EEPROM stores text font, settings, and text screen

6. Backlight control, bar graphs, large digits, multiple displays, software contrast control, auto line wrapping, and auto scroll feature.

7. Connect 127 modules on the same 2-wire interface

8. 122 x 32 pixel graphics display, text display using built-in or user supplied fonts, adjustable contrast, backlighting, and keypad interface

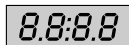
9. 240 x 64 pixel graphic display, text display using built-in or user supplied fonts, adjustable contrast, backlighting, and keypad interface

10. Built-in font provision for up to 8-user defined characters, software controlled brightness, use up to a 25-key keypad with one 10-key buffer, 6 general purpose outputs, horizontal or vertical bar graphs

11. LCD Serial Backpack* accepts RS232, CMOS or TTL signal.

VL 0.5" High 4-Digit Field Effect LCD Display

- Compatible with socket P/N 78641CE (2), pg 122
- Pin spacing: 0.1" centers
- 40-pin package (no connector required)
- Digital multimeters, thermometers, pressure gauges, timers, frequency counters, and clocks (12 or 24 hour format)



Part No.	Product No.	Size (W x H x D)	1	10	25
17110CE	402-DP-RC-S	2.0" x 1.2" x 0.1"	\$14.95	\$13.49	\$12.15

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Parallel LCD Displays and Panel Meters

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Parallel LCD Displays



• For detailed specification sheets, please visit www.Jameco.com.

• 90-day Jameco warranty

Ampire AC-162A

• 16 x 2 characters • 2.5" x 0.7" display



171715CE

PicVue PVC160204A

• 16 x 2 characters • 2.6" x 0.7" display



277384CE

PicVue PVC160206QYL04

• 16 x 2 characters • 2.4" x 0.6" display



365982CE

PicVue PVC160205

• 16 x 2 characters • 3.9" x 0.9" display



277392CE

Optrex DCM16204N-LR-B

• 16 x 2 characters • 3.9" x 0.9" display



320098CE

Optrex DM16433

• 16 x 4 characters
• 2.4" x 1.0" display



210761CE

Samsung 9936

• 20 x 1 characters • 6.5" x 1.3" display



206615CE

Ampire AC-202A

• 20 x 2 characters • 3.3" x 0.7" display



171723CE

Optrex DM20261ANB-2Y-20

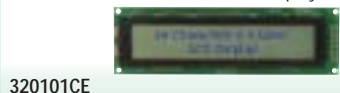
• 20 x 2 characters • 3.3" x 0.7" display



320071CE

Solomon LM1200SGR

• 24 x 2 characters • 3.7" x 0.7" display



320101CE

Solomon LM1030SGR

• 40 x 2 characters • 6.0" x 0.6" display



320039CE

Ocular OM4021-WGS-01

• 40 x 2 characters • 6.0" x 0.6" display



277325CE

Optrex 20-20191-2

• 40 x 2 characters • 5.8" x 0.5" display



215159CE

Emerging Display EW40420GLY

• 40 x 4 characters • 5.9" x 1.2" display



277253CE

PicVue PG121202A

• 128 x 128 pixels
• 2.7" x 2.7" display



277333CE

PicVue PVG240602A

• 240 x 64 pixels • 5.2" x 1.5" display



277350CE

Part No.	Manufacturer	Product No.	Characters x Lines	Character Font	Input Data	Input Voltage	Backlight	Notes*	Module Size (W"xH"xD")	Display Size (W"xH")	Pricing		
											1	10	25
171715CE	Ampire	AC-162A	16 x 2	5 x 8	8-bit	5.5V @ 1.5mA	Y	3, 5	3.4 x 1.2 x 0.5	2.5 x 0.7	\$13.99	\$13.35	\$12.65
277384CE	PicVue	PVC160204A	16 x 2	5 x 7	8-bit	5.0V @ 1.6mA	Y	—	3.3 x 1.4 x 0.5	2.6 x 0.7	13.99	11.99	9.99
365982CE	PicVue	PVC160206QYL04	16 x 2	5 x 8	8-bit	5.0V @ 1.6mA	Y	—	3.3 x 1.2 x 0.5	2.4 x 0.63	12.69	10.55	9.45
277392CE	PicVue	PVC160205	16 x 2	5 x 8	4-bit or 8-bit	5.2V @ 1.2mA	Y	—	4.8 x 1.7 x 0.5	3.9 x 0.9	19.95	18.95	17.99
320098CE	Optrex	DCM16204N-LR-B	16 x 2	5 x 8	4-bit or 8-bit	5.0V @ 3.0mA	Y	5	3.2 x 1.6 x 0.6	2.4 x 0.6	14.55	12.37	9.28
210761CE	Optrex	DM16433	16 x 4	5 x 8	4-bit or 8-bit	6.5V @ 2.2mA	N	1, 5	3.4 x 2.4 x 0.3	2.4 x 1.0	22.95	19.95	18.69
206615CE	Samsung	9936	20 x 1	5 x 7	4-bit or 8-bit	5.5V @ 3.0mA	N	2	7.2 x 1.6 x 0.4	6.5 x 1.3	19.99	16.99	12.75
171723CE	Ampire	AC-202A	20 x 2	5 x 8	8-bit	5.0V @ 1.7mA	Y	3, 5	4.6 x 1.5 x 0.4	3.3 x 0.7	24.95	22.49	20.25
320071CE	Optrex	DM20261ANB-2Y-20	20 x 2	5 x 8	4-bit or 8-bit	5.0V @ 3.0mA	Y	5	4.6 x 1.5 x 0.6	3.3 x 0.7	19.89	17.89	15.59
320101CE	Solomon	LM1200SGR	24 x 2	5 x 7	8-bit	5.0V @ 3.0mA	N	5	4.6 x 1.4 x 0.4	3.7 x 0.7	15.59	13.35	11.99
320039CE	Solomon	LM1030SGR	40 x 2	5 x 7	8-bit	5.0V @ 3.0mA	N	5	7.2 x 1.2 x 0.3	6.0 x 0.6	22.15	18.83	14.12
277325CE	Ocular	OM4021-WGS-01	40 x 2	5 x 8	8-bit	5.0V @ 2.5mA	Y	5	7.2 x 1.3 x 0.6	6.0 x 0.6	24.95	21.25	15.95
215159CE	Optrex	20-20191-2	40 x 2	5 x 8	8-bit	5.5V @ 5mA	Y	4	7.2 x 1.4 x 0.4	5.8 x 0.5	29.99	25.49	18.95
277253CE	Emerging Display	EW40420GLY	40 x 4	5 x 7	8-bit	4.0V @ 10mA	Y	—	7.5 x 2.1 x 0.6	5.9 x 1.2	42.39	38.79	34.95
277333CE	PicVue	PG121202A	128 x 128 pixels	128 x 128	8-bit	5.0V @ 6.0mA	N	6	3.5 x 3.5 x 0.4	2.7 x 2.7	45.29	41.25	37.15
277350CE	PicVue	PVG240602A	240 x 64 pixels	240 x 64	8-bit	5.0V @ 6.0mA	N	6	7.1 x 2.6 x 0.4	5.2 x 1.5	61.95	56.75	46.85

* 1. Control LSI HD44780 or equivalent and column driver MSM5259 or equivalent; 2. Built-in controller HD44780; 3. Controller KS0066U or equivalent; 4. Column driver: KS0063B; 5. For power supply: recommend P/N 164101CE, pg 197; 6. Dot Graphic LCD display

velleman

Analog Panel Meters

• Includes mounting hardware

• 316507CE: includes current shunt

• Size: A: 2.4"W x 1.8"H x 1.3"D

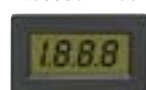
B: 2.8"W x 2.4"H x 1.4"D

0.6" High 3½- & 4½-Digit LCD Digital Panel Meters

- Input Ranges: 200mV, 20V, 200V, 500V
- Accuracy: ±0.5%
- Size: 2.7"W x 1.7"H
- Input impedance: >100MΩ
- Automatic polarity indication
- Supply voltage: 8-12VDC (recommend 9V battery P/N 151095CE, pg 206)

146835CE: Backlit display

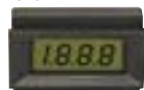
Includes: Bezel



108388CE



175951CE



146835CE



123140CE

Part No.	Cross Ref. No.	Digits	1	10	25
108388CE	PM-428	3½	\$12.95	\$11.95	\$10.95
175951CE	PM-128	3½	12.95	11.95	10.95
146835CE	PM-188BL	3½	19.95	17.99	16.19
123140CE	PM-328	4½	27.95	24.95	22.49

Part No.	Product No.	Measurement Range	Size	1	4
316603CE	AVM6015	0 – 15VDC	A	\$9.29	\$7.85
316671CE	AVM7015	0 – 15VDC	B	8.79	7.49
316638CE	AVM6030	0 – 30VDC	A	8.79	7.49
316654CE	AVM7030	0 – 30VDC	B	8.79	7.49
316718CE	AVM60150	0 – 150VAC	A	8.79	7.49
316785CE	AVM60300	0 – 300VAC	A	8.79	7.49
315301CE	AIM60005	0 – 50uA	A	9.29	7.85
316523CE	AIM60050	0 – 50mA	A	8.79	7.49
316486CE	AIM60100	0 – 100mA	A	8.99	7.65
316558CE	AIM60500	0 – 500mA	A	8.99	7.65
316566CE	AIM60500	0 – 5A	A	8.79	7.49
316582CE	AIM705000	0 – 5A	B	8.79	7.49
316494CE	AIM6010A	0 – 10A	A	8.79	7.49
316507CE	AIM6030A	0 – 30A	A	8.79	7.49



316603CE



316523CE

Color Code Legend
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213

LCDs

Boxed Processors

Desktop Processors

Part No.	Product Name	Product No.	Speed (GHz)	FSB (MHz)	Cache	Package	1	10
345471CE	Xeon [†]	BX80532KE2800D	2.8	533	512kB	mPGA-604	\$365.95	\$351.39
344532CE	Xeon	RN80532K0041512	2.0	400	512kB	INT3	231.25	217.29
344567CE	Xeon LV	RK80532EC025512	1.6	400	512kB	FC-PGA2p	252.69	237.49
344541CE	Xeon LV	RK80532EC041512	2.0	400	512kB	FC-PGA2p	249.99	243.45
283354CE	Pentium ⁴ [†]	BX80546PE2800D	2.8	533	512kB	mPGA-478	247.09	234.75
283291CE	Pentium ⁴ [†]	BX80532PG2800E	2.8	800	1MB	mPGA-478	257.95	250.25
283311CE	Pentium ⁴ [†]	BX80532PG3200D	3.2	800	512kB	mPGA-478	367.09	329.39
283274CE	Pentium ⁴ [†]	BX80546PG3200E	3.2	800	1MB	mPGA-478	311.59	304.99
345498CE	Pentium [†]	BX80547PG3200E	3.2	800	1MB	Socket T	305.99	293.99
345480CE	Pentium [†]	BX80532PG3400FS	3.4	800	512kB	Socket T	1,353.89	1,286.25
283451CE	Celeron [†]	BX80532RC2000B	2.0	400	128kB	mPGA-478	91.09	88.85
283418CE	Celeron [†]	BX80532RC2600B	2.6	400	128kB	mPGA-478	126.35	119.95
345519CE	Celeron D [†]	BX80546RE2400C	2.4	533	256kB	—	104.25	99.05

◆ These products ship from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD. [†] Includes active heat sink; * Hyper-threading technology

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Embedded Processors

Part No.	Product Name	Product No.	Speed (MHz)	FSB (MHz)	Cache	Package	1	10
344241CE	Pentium	A8050266166	166	66	—	SPGA	\$79.45	\$62.69
344276CE	Pentium MMX	FV80503CSM66166	166	66	—	PPGA-296	77.99	61.55
344268CE	Pentium MMX	FV80503CSM66266	266	66	—	PPGA-296	80.89	71.09
344313CE	Pentium II	KC80524KX266256	266	66	256kB	BGA1	103.45	90.89
344284CE	Pentium II	KC80524KX333256	333	66	256kB	BGA1	103.45	90.89
344452CE	Pentium III	KC80526LY400256	400	100	256kB	BGA2	117.55	103.29
344444CE	Pentium III	KC80526LY500256	500	100	256kB	BGA2	133.25	117.09
344401CE	Pentium III	RB80526PY600256	600	100	256kB	FC-PGA	117.55	103.29
344436CE	Pentium III	KC80526GY850256	850	100	256kB	BGA2	107.39	100.95
344428CE	Pentium III	RB80526PY700256	700	100	256kB	FC-PGA	117.55	103.29
344410CE	Pentium III	RB80526PZ001256	1000	133	256kB	FC-PGA	133.25	117.09
344575CE	Pentium III	RK80530KZ012512	1250	133	512kB	FC-PGA2	230.19	218.69
344516CE	Pentium 4	RK80532PC041512	2000	400	512kB	mPGA-478	238.79	224.45
344599CE	Pentium 4	RK80532PE056512	2400	533	512kB	mPGA-478	183.99	181.55
344305CE	Celeron	FV80524RX300128	300	66	128kB	PGA-370	84.49	66.69
344348CE	Celeron	KC80526LY400128	400	100	128kB	BGA2	81.25	64.15
344330CE	Celeron	FV80524RX433128	433	66	128kB	PPGA	73.35	64.45
344399CE	Celeron	RB80526RX733128	733	66	256kB	FC-PGA	72.19	56.99
344381CE	Celeron	RB80526RY850128	850	100	128kB	FC-PGA	72.19	56.99
344356CE	Celeron	RK80530RY009256	1200	100	256kB	FC-PGA2	78.39	68.89
344461CE	Celeron	RK80532RC041128	2000	400	128kB	mPGA-478	94.05	91.79
344479CE	Celeron	RK80532RC060128	2500	400	128kB	mPGA-478	117.55	103.29

Upgrade, Don't Downgrade!

While many consider adding a hard drive to their PC rather painless, there are a couple of issues you should consider. Otherwise, your bigger, faster storage may end up slower and with less capacity.

First, always make sure you buy a drive that matches your computer. UATA for a computer with a UATA interface, SATA for SATA, etc. Otherwise, your system will either be incompatible, or it won't take advantage of the higher drive speed.

Second, pay attention to the drivers sent with the hard drive. These drivers enable older systems to access the whole hard drive. Sometimes they increase transfer speed too!



Practical Practices
Money Saving Tips for the Engineer

Hard Disk Drives

3.5" LP EIDE/100 Disk Drives

Part No.	Product No.	Capacity	Interface	RPM	Seek (ms)	Cache (MB)	Mfr. Warranty	1	5
319361CE	WD2500SB	250GB	EIDE/100	7200	8.9	8	3 yrs	\$243.59	\$231.49
319370CE	WD1600SB	160GB	EIDE/100	7200	8.9	8	3 yrs	143.55	136.59
319388CE	WD1200SB	120GB	EIDE/100	7200	8.9	8	3 yrs	131.39	124.85

3.5" LP UATA/100 Disk Drives

Part No.	Product No.	Capacity	Interface	RPM	Seek (ms)	Cache (MB)	Mfr. Warranty	1	5
319441CE	WD2500JB	250GB	UATA/100	7200	8.9	8	3 yrs	\$228.55	\$217.15
319505CE	WD2500BB	250GB	UATA/100	7200	8.9	2	1 yr	223.45	212.29
319450CE	WD2000JB	200GB	UATA/100	7200	8.9	8	3 yrs	151.69	144.35
319513CE	WD2000BB	200GB	UATA/100	7200	8.9	2	1 yr	146.25	139.15
319468CE	WD1600JB	160GB	UATA/100	7200	8.9	8	3 yrs	129.99	123.59
319521CE	WD1600BB	160GB	UATA/100	7200	8.9	2	1 yr	117.85	111.95
319476CE	WD1200JB	120GB	UATA/100	7200	8.9	8	3 yrs	115.15	109.35
319530CE	WD1200BB	120GB	UATA/100	7200	8.9	2	1 yr	106.99	101.65
319484CE	WD800JB	80GB	UATA/100	7200	8.9	8	3 yrs	89.39	84.99
319548CE	WD800BB	80GB	UATA/100	7200	8.9	2	1 yr	79.89	75.95
319492CE	WD400JB	40GB	UATA/100	7200	8.9	8	3 yrs	75.85	72.05
319556CE	WD400BB	40GB	UATA/100	7200	8.9	2	1 yr	68.99	65.69

3.5" SATA/150 Disk Drives

Part No.	Product No.	Capacity	Interface	RPM	Seek (ms)	Cache (MB)	Mfr. Warranty	1	5
319337CE	WD2500SD	250GB	SATA/150	7200	8.9	8	3 yrs	\$253.15	\$240.55
319396CE	WD2500JD	250GB	SATA/150	7200	8.9	8	3 yrs	239.69	227.75
319409CE	WD2000JD	200GB	SATA/150	7200	8.9	8	3 yrs	166.59	158.65
319345CE	WD1600SD	160GB	SATA/150	7200	8.9	8	3 yrs	149.15	141.79
319417CE	WD1600JD	160GB	SATA/150	7200	8.9	8	3 yrs	135.49	128.99
319353CE	WE1200SD	120GB	SATA/150	7200	8.9	8	3 yrs	132.75	126.19
319425CE	WD1200JD	120GB	SATA/150	7200	8.9	8	3 yrs	120.55	114.99
319433CE	WD800JD	80GB	SATA/150	7200	8.9	8	3 yrs	93.45	88.79
319311CE	WD740GD	74GB	SATA/150	10,000	4.5	8	5 yrs	260.19	247.19
319329CE	WD360GD	36.7GB	SATA/150	10,000	5.2	8	5 yrs	153.25	145.65

2.5" LP EIDE/100 Disk Drives

Part No.	Product No.	Capacity	Interface	RPM	Seek (ms)	Cache (MB)	Mfr. Warranty	1	5
319732CE	WD400UE	40GB	EIDE/100	5400	12	2	1 yr	\$99.69	\$94.71
319708CE	WD400VE	40GB	EIDE/100	5400	12	8	1 yr	112.25	106.65
319724CE	WD600UE	60GB	EIDE/100	5400	12	2	1 yr	133.35	126.70
319695CE	WD600VE	60GB	EIDE/100	5400	12	8	1 yr	140.49	133.49
319716CE	WD800UE	80GB	EIDE/100	5400	12	2	1 yr	190.25	180.75
319687CE	WD800VE	80GB	EIDE/100	5400	12	8	1 yr	196.25	186.41

◆ These products ship from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

To Find Additional Hard Drives,
Visit www.Jameco.com/Prod/WesternDigital

Legacy 3.5" Hard Disk Drives*

Part No.	Capacity	Description	Warranty	1	10
146333CE	2.5GB	EIDE/FAST ATA-2	1 year	\$33.29	\$29.95
151044CE	4.3GB	EIDE/Ultra DMA33	1 year	49.95	45.95
124978CE	1.27GB	IDE	1 year	29.95	26.95
118949CE	850MB	IDE	1 year	49.95	47.45
115764CE	425MB	IDE	3 mos.	45.95	43.65

* Manufacturers may vary & capacity may exceed specification ◆ Pull = Extra Savings

SALE Legacy Intel® Desktop Processors Quantity SAVE

Part No.	Description	Speed (MHz)	Package	1	10
311204CE	Intel Celeron® processor	800	FCPGA-370	\$99.95	\$94.95
311212CE	Intel Celeron® processor	566	FCPGA-370	47.79	45.39
183118CE	Intel Pentium® III processor	600	Slot 1	99.95	96.43
183100CE	Intel Pentium® II processor	400	Slot 1	95.99	71.99
151651CE	Intel Pentium® II processor	300	Slot 1	89.95	85.45
190060CE	Intel Pentium® II w/ heat sink	233	Slot 1	89.95	79.95
150501CE	Intel Pentium MMX® processor	233	376/PGA	69.95	62.95
140054CE	Intel Pentium MMX® processor	200	376/PGA	49.95	37.45
130841CE	Intel Pentium® processor	166	296/PGA	55.95	41.96
130833CE	Intel Pentium® processor	133	296/PGA	39.95	35.95
118421CE	Intel 486DX2 processor	66	168/PGA	19.95	16.96

◆ Pull = Extra Savings



Processor-Based Motherboards[†]



345130CE



345092CE



345156CE



285085CE



285114CE



285157CE

Jameco Part No.	Mfr.	Product No.	Board Style	Processor Support	FSB (MHz)	Chipset	On-Board Graphics	Memory Type	On-Board Audio	USB	HDD Support	On-Board LAN	Wt. (lbs.)	Warranty (Yrs.)	Pricing	
															1	10
345050CE	Giga-Byte	GA-8S648FX-RZ♣	ATX	P4	800/533/400	661FX/963L	No	DDR400/333/266	Yes	2.0	ATA	100Mb	2.6	3	\$76.55	\$72.85
345130CE	Giga-Byte	GA-8IPE1000-G♣	ATX	P4	800/533/400	i865PE	No	DDR400/333/266	Yes	2.0	SATA	1000Mb	3.3	3	131.55	106.75
345164CE	Giga-Byte	GA-8IPE1000PRO-G♣	ATX	P4	800/533/400	i865PE	No	DDR400/333/266	Yes	2.0	SATA	1000Mb	3.6	3	131.55	124.95
345560CE	Intel	BOXD915GAVL♣	ATX	P4	800/533	i915G	Yes	DDR333/400	Yes	2.0	SATA	100Mb	2.9	3	149.45	141.99
345578CE	Intel	BOXD915PBLL♣	ATX	P4	800/533	i915P	No	DDR2 533/400	Yes	2.0	SATA	100Mb	4.7	3	198.99	196.25
345586CE	Intel	BOXD915PCYL♣	ATX	P4	800/533	i915P	No	DDR2 533/400	Yes	2.0	SATA	100Mb	2.9	3	157.45	149.55
285131CE	Intel	S875WP1♣	ATX	P4	533	i875P	Yes	DDR400/333/266	No	2.0	SATA	100Mb	2.7	3	256.35	245.99
345543CE	Intel	BOXD865PERLX♣	ATX	P4/Celeron	800/533/400	i865PE	No	DDR400-333/266	Yes	2.0	SATA	100Mb	2.6	3	118.85	112.89
345092CE	Giga-Byte	GA-7N400-L♣	ATX	Athlon XP*	400/333/266/200	nForce2 400	No	DDR400/333/266	Yes	2.0	ATA	100Mb	3.0	3	90.25	85.74
345121CE	Giga-Byte	GA-7VT600-1394♣	ATX	Athlon XP*	400/333/266/200	KT600	No	PC3200/2700/2100	Yes	2.0	SATA	100Mb	2.8	3	103.69	98.49
345156CE	Giga-Byte	GA-8IG1000MK-B♣	µATX	P4	800/533/400	i865G	No	DDR400/333/266	Yes	2.0	SATA	100Mb	3.8	3	129.99	123.55
345172CE	Giga-Byte	GA-8I915G-MF♣	µATX	P4	800/533/400	i915G/ICH6	Yes	DDR400/333	Yes	2.0	SATA	1000Mb	3.8	3	127.65	124.99
345551CE	Intel	BOXD915GAGL♣	µATX	P4	800/533	i915G	Yes	DDR333/400	Yes	2.0	SATA	100Mb	2.7	3	141.85	136.59
345594CE	Intel	BOXD925XBCL♣	µATX	P4	800/533	i925X	No	DDR2 533/400	Yes	2.0	SATA	1000Mb	4.5	3	248.99	247.99
345033CE	Giga-Byte	GA-8I845GVM-RZ♣	µATX	P4	533/400	i845GV	Yes	DDR333/266/200	Yes	2.0	ATA	100Mb	1.8	3	76.35	72.49
285085CE	Intel	BOXD865GLCL♣	µATX	P4/CEL	800/533	i865G	Yes	DDR400/333	Yes	2.0	SATA	100Mb	2.5	3	142.09	134.95
285114CE	Intel	BOXD845GVSRL♣	µATX	P4/CEL	533/400	i845GV	Yes	DDR 333/266	Yes	2.0	ATA	100Mb	2.1	3	79.95	74.95
345041CE	Giga-Byte	GA-7VM400M-RZ♣	µATX	Athlon XP*	333/266/200	KM400	Yes	DDR333/266/200	Yes	2.0	ATA	100Mb	2.3	3	76.79	72.95
285157CE	Intel	SE7505VB2♣	eATX	2 x Xeon	533/400	iE7505	Yes	DDR200/266	No	2.0	SATA	100Mb	3.8	3	474.15	469.79

♣ These products ship from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

*Also compatible w/ Athlon and Duron processors.

† For complete specs see www.Jameco.com

To Find Additional Products In This Series, Visit www.Jameco.com/Prod/Motherboards

DIMM and SIMM Memory Modules



DDR Memory Modules

Part No.	Product No.	Capacity	Description	Config.	Pins	1	10
354634CE	32464468-P♣	128M	SDR133	16M x 64	168	\$30.19	\$28.69
354642CE	32474468-P♣	256M	SDR133	32M x 64	168	53.19	50.55
354651CE	32484588-P♣	512M	SDR133	64M x 64	168	102.59	97.49
354669CE	35122468-P♣	128M	DDR PC2100	16M x 64	184	27.35	25.95
354677CE	35132588-P♣	256M	DDR PC2100	32M x 64	184	50.49	47.95
354685CE	35142588-P♣	512M	DDR PC2100	64M x 64	184	92.25	87.65
354693CE	35124468-PA♣	128M	DDR PC2700	16M x 64	184	36.09	34.29
354706CE	35134588-PB♣	256M	DDR PC2700	32M x 64	184	47.45	45.09
354714CE	35144588-PA♣	512M	DDR PC2700	64M x 64	184	97.65	92.75
354722CE	35154680♣	1G	DDR PC2700	128M x 64	184	233.99	222.45
354731CE	35125468-P♣	128M	DDR PC3200	16M x 64	184	37.09	35.25
354749CE	35135588-PB♣	256M	DDR PC3200	32M x 64	184	52.25	49.65
354757CE	35145588-PA♣	512M	DDR PC3200	64M x 64	184	94.79	89.99
354765CE	35155680♣	1G	DDR PC3200	128M x 64	184	299.99	284.99



Kingston Memory Modules

Part No.	Product No.	Capacity	Description	Config.	Pins	1	10
284998CE	KVR400X64C25/512	512MB	DDR400 ♣	64M x 64	184	\$135.69	\$127.89
285026CE	KVR266X64C25/512	512MB	DDR266 ♣	64M x 64	184	114.15	102.75
285018CE	KVR266X64C25/256	256MB	DDR266 ♣	32M x 64	184	69.95	66.45
285042CE	KVR133X64C3/256	256MB	PC133 ♣	32M x 64	168	68.29	64.89
285034CE	KVR133X64C3/128	128MB	PC133 ♣	16M x 64	168	37.95	32.45

♣ These products ship from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

Lowest Price Guarantee

Found a product at a lower print-advertised price?
We'll beat that price by 10% right down to our cost!

Legacy Memory Modules

Part No.	Cross Ref. No.	Capacity	Description	Config.	Pins	1	10
148419CE	16MBX64SDRAM	128MB	10ns Syn. DRAM DIMM	16M x 64	168	\$65.95	\$59.95
148401CE	8MBX64SDRAM	64MB	10ns Syn. DRAM DIMM	8M x 64	168	28.19	26.95
148451CE	JEED07264	64MB	60ns SIMM EDO	16M x 32	72	29.95	28.45
148398CE	4MBX64SDRAM	32MB	10ns Syn. DRAM DIMM	4M x 64	168	18.39	16.59
148460CE	8MBX36-60	32MB	60ns SIMM	8M x 36	72	39.95	36.99
148443CE	JEED07232	32MB	60ns SIMM EDO	8M x 32	72	43.95	39.59
75184CE	P364000-XX-6	16MB	60ns SIMM	4M x 36	72	21.95	20.95
130711CE	JEED07216	16MB	60ns SIMM EDO	4M x 32	72	12.75	11.45
75096CE	P362000-XX-6	8MB	60ns SIMM	2M x 36	72	21.55	19.39
130729CE	JEED07208	8MB	60ns SIMM EDO	2M x 32	72	9.95	7.45
285667CE	HB56U232	8MB	70ns SIMM	2M x 36	72	8.95	6.95
75133CE	P361000-XX-6	4MB	60ns SIMM	1M x 36	72	12.95	11.65
41751CE	421000A9B-70	1MB	70ns SIMM	1M x 9	30	3.95	3.45

DDR2, DDR, SD and EDO Memory Modules

- DDR2 240-pin DIMM
- DDR 266/333/400/433 184-pin DIMM
- DRAM SIMM
- SDRAM 168-pin DIMM
- SDRAM PC100/133 168-pin ECC DIMM
- Cisco Router SDRAM 100-pin DIMM
- Apple eMAC PC133 SDRAM 168-pin DIMM
- Apple iMAC flat panel PC133 144-pin DIMM
- Apple PowerMAC G4 SDRAM PC133 168-pin DIMM
- Apple PowerMAC G3 SDRAM PC133 DIMM

NEW
ON THE WEB



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See Our Memory Offering at www.Jameco.com/Prod/ComputerMemory

CPU Heat Sinks and Fans*

Part No.	Description	Size (H" x W" x D")	Approvals	1	10
206244CE	Heat sink w/ dual fan slot (SECC 2)	5.25 x 1.95 x 1.30	CE	\$12.95	\$11.65
319951CE	Heat sink w/ fan for PIII slot 1	2.0 x 4.9 x 8.5	—	9.85	8.85
181278CE	Heat sink w/ fan for socket 7 (ATX)	2.12 x 2.05 x 1.67	UL/CE/CSA	8.49	7.65
190545CE	Heat sink w/ fan for socket 370	2.45 x 2.42 x 2.10	—	13.55	12.19
319185CE	Heat sink w/ fan for socket 7 & 370	1.38 x 2.36 x 2.59	—	7.65	7.25
129226CE	Heat sink for 486 CPU - adhesive back	1.70 x 1.63 x 0.36	—	2.95	2.65
191636CE	Heat sink w/ fan for 486 CPU w/ clip	1.85 x 1.92 x 0.72	UL/CE/TUV	5.95	5.36
174115CE	Heat sink w/ fan for 486 CPU w/ snap†	1.93 x 1.96 x 0.93	UL/CU	3.95	2.96
309340CE	Heat sink w/ fan for socket 7 (AT/ATX)	1.57 x 2.03 x 2.07	—	8.99	8.59
308742CE	Heat sink w/ fan for 586 CPU w/ snap†	0.73 x 2.05 x 1.94	—	11.39	10.25

† 14" lead wires * See website for photos

To Find Additional Products In This Series, Visit www.Jameco.com/Prod/HeatSinks

Mounting Kits

Part No.	Cross Ref. No.	Description	Wt. (lbs.)	1	10	25
180857CE	HDB35	3.5" hard drive mount kit (short)	0.2	\$3.89	\$3.49	\$3.15
117217CE	HDMK	3.5" kit (w/ black & gray faceplates)	0.6	5.75	5.18	4.66
32088CE	SMK	3.5" to 5.25" mounting kit (beige faceplate)	0.5	5.89	5.29	4.79

Thermoelectric Cooler Chips

- Cools down to -30°C (dependent on external temp.)
- Heat or cool by changing direction of current
- 20 AWG wire leads, 4" long
- Temperature = 60°C max.

172030CE: 8.4VDC max.

- Couples: 71*
- Watts: 19.7
- Current: 4A max.
- Size: 1.2"L x 1.2"W x 0.2"T

172048CE: 15.4VDC max.

- Couples: 127* • Watts: 35.6
- Current: 4A max. • Size: 1.6"L x 1.6"W x 0.2"T

172056CE: 15.4VDC max.

- Couples: 127* • Watts: 79.1
- Current: 8A max. • Size: 2.0"L x 2.0"W x 0.2"T

Part No.	Cross Ref. No.	1	10
172030CE	TEC30	\$19.95	\$17.95
172048CE	TEC40	25.95	22.95
172056CE	TEC50	33.75	29.35

* Couples: # of P&N type semiconductor pairs connected electrically in series

CD-ROM Audio Cables

Part No.	Connection from Sound Blaster to	Length	1	10	50
127546CE	Sony/MPC2	18"	\$2.95	\$2.65	\$2.29
168612CE	Universal	18"	4.95	4.45	3.99

Over 99% of Our Products Are In Stock

Place your order by 6PM EST for same business day shipment.

CD Accessories

Part No.	Description	1	5	10
249447CE	48x/700MB/80 min./100 pk.	\$31.95	\$30.50	\$28.95
172179CE	Single jewel case	.49	.41	.31
208514CE	Paper envelope 25 pk.	2.49	2.25	1.99
208493CE	Slim asst. color 10 pk.	3.09	2.79	2.54

Business Card CD-R Kit

Differentiate yourself or your business from others. This kit includes 12 50MB capacity CD-R and sleeves, 16 labels and label design software. A great way to promote your business in trade shows and exhibits. Easy to carry and cost-effective.

Part No.	Description	1	5
249308CE	Business card CD-R kit	\$4.95	\$3.46

Front Panel Access Port

Enjoy easy up front access to all your most used ports, including USB, IEEE 1394, audio, and serial ports, without moving the PC.

- 2 USB; 1 IEEE 1394; Line-In; Line-Out; RS-232 (9-pin male)

Part No.	Description	1	10
208004CE	Front panel port	\$34.95	\$32.45



Tower not included

Removable IDE HDD Enclosures For 3.5" Drive Bay

- For quick drive swapping
- Power LEDs
- Keylock for security

196040CE:

- Size: 5.8"W x 8.5"D x 1.5"H
- Weight: 1.2 lbs.

196031CE:

- Size: 4.1"W x 7.5"D x 1.6"H • Weight: 0.8 lbs.

319775CE:

- Size: 5.8"W x 8.9"D x 1.6"H • Weight: 1.32 lbs.

Includes: Inner cable with IDE connector

Part No.	Description	1	10	25
196040CE	IDE encl. w/ insert ..	\$27.95	\$20.95	\$14.69
319775CE	IDE encl. w/ insert	15.55	14.79	14.05
196031CE	Insert for 196040CE ..	19.95	17.95	16.16



Removable IDE HDD Enclosure For 5.25" Drive Bay

- Supports DMA 66 hard drive
- Retaining lock mechanism
- 12VDC @ 50mA fan
- CFM rating: 5.6
- Size: 5.9"W x 8.7"D x 1.6"H
- Weight: 1.3 lbs.

Includes: Mounting hardware

Part No.	Description	1	10	25
170608CE	Enclosure kit (IDE)	\$25.45	\$22.89	\$19.95



External IDE HDD Enclosure with Parallel Interface

An external HDD enclosure for IDE hard drives with a parallel port interface to be connected to a PC or laptop. No drivers needed. Windows® 98 and above will automatically detect hard disk drive.

- Parallel port interface
- Built-in fan and 110V power supply

Includes: Parallel cable and power cord

Part No	Description	1	5
249316CE	HDD external enclosure	\$17.95	\$16.16



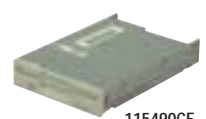
1.44MB 3.5" Internal Floppy Disk Drives

- IBM PC/XT and higher compatibles
- Compatible with DOS versions 3.3 or higher
- Automatically determines if disk is high or low density
- Size: 4.0"W x 5.9"D x 1.0"H (actual drive size)
- Weight: 1.4 lbs.

♣ Pull = Extra Savings

Part No.	Product No.	Mfr.	Color	1	10
115490CE	FD235	TEAC	Beige	\$19.95	\$17.95
189165CE	— ♣	Varies	Beige	10.95	9.95
249367CE	MPF920-Z	Sony	Beige	16.95	15.99
453667CE	MPF920-2 ♣	Sony	Beige	8.45	8.00
453683CE	MFB820 ♣	Sony	Black	28.35	26.81
453704CE	FD-05HF8630 ♣	TEAC	Black	58.95	55.81

♣ These products ship from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.



Internal Optical Drives

- 5.25" half-height design
- One-year warranty
- Manufacturer varies

Includes: Audio cable

CD-ROM

Part No.	Speed	Buffer	kB/sec.	1	10
345009CE	52x	128kB	7800	\$25.35	\$24.09
189448CE	56x	128kB	8400	29.95	28.45

CD-RW/DVD

- 52x read/write; 32x rewrite; 16x DVD

Part No.	Speed	Buffer	kB/sec.	1	10
345017CE	52x	2MB	7800	\$52.15	\$50.75

DVD-RW

- 48x read; 16x and 8x write; 4x rewrite

Part No.	Speed	Buffer	kB/sec.	1	10
345025CE	48x	2MB	7200	\$96.25	\$91.45

♣ These products ship from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

Find Additional Products In This Series at
www.Jameco.com/Prod/InternalOpticalDrives

Internal Optical Drives

QSI, Sony, BenQ, LiteOn, Teac, AOpen, NuTech and Pioneer

NEW
ON THE WEB

CD-R

- Speeds up to 52x

CD-RW

- Speeds up to 52x32x52

CD-RW +DVD

- Speeds up to 52x32x52 +16

DVD-ROM

- Speeds up to 16x

DVD-RW

- Speeds up to 24x

These products ship from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

See Our Complete Internal Optical Drives Offering at
www.Jameco.com/Prod/InternalOpticalDrives

Find it quick and easy at www.Jameco.com

Compact Flash Memory

Compact Flash cards are the most popular type of flash storage used in many electronic devices today. These removable, compact cards are ideal storage solutions for taking more pictures with your digital camera, listening to more music with your MP3 player, and increasing the productivity of your PDA, palmtop, or handheld PC.

- Type 1
- Read speed: up to 2MB/sec
- Write speed: up to 1.2MB/sec

Part No.	Size	1	10	25
344962CE	128 MB	\$18.99	\$17.99	\$17.15
344971CE	256 MB	31.69	30.15	28.59
344989CE	512 MB	53.55	50.85	48.29

♣ These products ship from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

Compact Flash Memory Cards

Lexar SanDisk TOSHIBA

- For use with digital cameras, MP3 players, and handheld PCs
- LexarMedia: 64MB to 1GB
- SanDisk: 64MB to 1GB
- - also CF Ultra II: 1GB to 4 GB
- Toshiba: 256MB to 2GB
- Renesas: 512MB

These products ship from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

See Our Complete Compact Flash Card Offering at
www.Jameco.com/Prod/CompactFlash

External Optical Drives

Teac External CD-RW

- Speed: 40x12x48
- Black

LiteOn DVD-RW with HDD Video Recorder

- 160GB HDD for up to 198 hours
- Back up camcorder and edit

These products ship from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

See Our Complete External Optical Drives Offering at www.Jameco.com/Prod/ExternalOpticalDrives

Internal Flash Card Readers

MediaGear 3.5" Media Bay USB 9-in-1 flash reader/writer

- 4 memory card slots
- Compact Flash type I & II;
- Microdrive; Memory Stick;
- Memory Stick PRO;
- SmartMedia; Secure Digital;
- Multimedia card & Extreme Digital

Soyo 3.5" BayOne XP 9-in-1 flash reader/writer

- Windows® compatible
- Slot for next generation SD

Soyo 5.25" BayOne Xtreme 9-in-1 reader/writer

- Detachable

Soyo 3.5" BayOne DV 9-in-1 flash reader/writer

- Windows® compatible
- USB and Firewire ports

These products ship from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

See Our Complete Flash Reader Offering at
www.Jameco.com/Prod/FlashReaders

USB Multimedia Card Reader

An easy way to upload photos, files, movies, and data from your multimedia flash memory card to your computer! Just drag and drop.

- USB-A male connector
- 1 expansion slot for multimedia card
- Compatible with PC's and MAC's

Part No.	Product No.	1	5	10
278125CE	SDDR-1201	\$5.99	\$5.46	\$4.96

Standalone Flash Card Readers

Vosonic XS-Drive II & MediaGear Flash-HD

- 6-in-1 portable storage
- Transfer photos or digital data from memory cards to internal hard drive using the LCD panel.
- CF type I&II; Microdrive;
- Memory Stick; Memory Stick PRO;
- SmartMedia; Secure Digital; Multimedia Card & xD
- Windows® and Mac compatible

These products ship from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

See Complete Standalone Flash Reader Offering at
www.Jameco.com/Prod/StandaloneReaders

USB Card Reader

Easy to use, USB memory card reader is compact and very versatile.

Supports all types of memory cards: compact flash types I and II, microdrives, both standard and reduced size multimedia cards, memory sticks, standard and mini secure digital cards, and smart media cards. USB 2.0 and 1.1 compliant, it supports transfer rates of up to 480Mbps and direct transfer between different types of memory cards.

- Supports hot-swap and wake-up
- Bus powered – no external power supply required
- LED indicators for power on and operation status of individual sockets
- Built-in USB-A cable

Part No.	Cross Ref. No.	1	10	25
344840CE	SD-U2CR	\$19.95	\$18.95	\$16.50

Multimedia/SD Flash Cards

SanDisk Kingston TOSHIBA

- For use in digital cameras, PCs, voice recorders, audio/video equipment, TVs, musical instruments, PDAs, mobile phones, automotive equipment, portable audio, and digital video cameras.
- SanDisk: 64MB to 1GB
- - also SD Ultra II: 512MB to 2GB
- Kingston: 256MB to 512MB
- Toshiba: 64MB to 1GB

These products ship from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

See Our Complete Multimedia/SD Card Offering at
www.Jameco.com/Prod/FlashMMCS

Flash Card Adapters

Phison 5-in-1 PCMCIA adapter Phison 5-in-1 Compact Flash adapter

- Use with SmartMedia, Secure Digital, Multimedia, Memory Stick and Memory Stick PRO

MediaGear xD-Picture to SmartMedia

- Windows® and Mac compatible

These products ship from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

See Our Complete Card Adapter Offering at
www.Jameco.com/Prod/FlashAdapters

Color Code Legend

New Sale Lower\$ QtySave



USB Interface Cards

Part No.	Manufacturer	Cross Ref. No.	Bus Type	Ports	Connectors	Product Description	1	10
344794CE	SYBA	SD-PCB-USB	PCMCIA	2	USB	32-bit cardbus Type II compliant, USB 2.0 compliant, data transfer rate of 480Mbps.	\$29.35	\$27.89
310201CE	—	USB/PCI5	PCI	4 ext / 1 int	USB	USB 2.0 compliant, open host controller interface USB 1.0A compliant, Windows® 98/ME/2000/XP.	14.95	14.19
344815CE	SYBA	SD-PCB-COM	PCMCIA	4	USB/Firewire	32-bit bus Type II slot, USB 2.0 and IEEE 1394a compliant, open HCI V1.0 and 1.1 compliant.	41.59	39.52
344778CE	SYBA	SY-VIA-5UB	PCI	4 ext / 1 int	USB	32-bit host interface, VT6212 (USB 2.0) host controller chip, USB 2.0 Rev 1.1 compliant.	13.55	12.86

Firewire Interface Cards

215984CE	—	U02-00315	PCMCIA	2	IEEE-1394	32-bit bus, IEEE 1394 compliant, 400Mbps max., backward compatible, supports Windows® 98SE/ME/2000/XP and MAC OS 8.6 or above.	\$44.29	\$40.29
344760CE	SYBA	SY-VIA-4F	PCI	3 ext / 1 int	Firewire	VT3606 controller chip, 32-bit, IEEE 1394-1995 and 1394a compliant.	21.79	20.70

Network Interface Cards

285501CE	—	RTL8139D	PCI	1	RJ-45	IEEE 802.3 and 802.3u compliant, auto detection of 10Mbps or 100Mbps, N-way 10/100 auto negotiation.	\$13.49	\$12.15
285510CE	—	905B ♣	PCI	1	RJ-45	IEEE 802.3 and 802.3u, N-way 10/100 auto negotiation.	11.99	10.79
285528CE	—	GD82559 ♣	PCI	1	RJ-45	IEEE 802.2 and 802.3 compliant, 6kB cache on board, 10/100 auto negotiation, supports Windows® 95/98/2000/NT3.51/NT4.0.	11.99	10.79
313710CE	Phoebe	OCTNIC-100	PCI	1	RJ-45	IEEE 802.3 auto negotiation compliant, Windows® 95/98/NT/ME/2000/XP compatible.	12.65	11.99
308769CE	3-COM	3C509B-TPO	ISA	1	RJ-45	IEEE 802.3i (10Base-T) and IEEE 802.3 (10Mbps) compliant.	15.49	13.95
308646CE	COMPEX	RL200A-PnP	ISA	2	RJ-45/BNC	IEEE 802.3 (10Base-T) 10Mbps, supports NETWARE, LAN manager, Windows® 95/NT/Workgroups/OS2.	18.09	16.25
355039CE	GetOn	C130	PCMCIA		Wi-Fi	32-bit cardbus interface, IEEE 802.11b compliant, wireless data-rate (1Mbps to 11Mbps), supports Windows® 98/2000/ME/XP.	17.59	16.72

Serial Interface Cards

171361CE	—	4025A	PCI	1	DB9	32-byte FIFO, 921kb/sec transfer rate, supports IRQ sharing, single 16C550.	\$38.95	\$35.95
171555CE	—	99378	ISA	2	DB9	16-byte FIFO, 921kb/sec transfer rate, IRQ 3/5/7/9/10/11/1/15 and address jumper configurable, dual 16C550 DB9 male.	24.95	21.85
132572CE	—	TC-400-550	ISA	4	DB9/DB25	16 or 32-byte FIFO, supports IRQ sharing, dual 16C550 DB9 male, dual 16C550, dual DB25 male.	59.95	53.95
172005CE	—	99467	PCI	2	DB9	32-byte FIFO, 921kb/sec transfer rate, supports IRQ sharing, dual 16C650 DB9 male.	48.45	43.65
171547CE	—	99468	PCI	4	DB25	32-byte FIFO, standard RS-232 interface, 921kb/sec transfer rate, supports IRQ sharing 16C550.	129.95	116.95
171660CE	—	99469	PCI	8	DB25	32-byte FIFO, standard RS-232 interface, 921kb/sec transfer rate, supports IRQ sharing 16C650.	179.95	161.95
344903CE	SYBA	SD-PCI-1S	PCI	2	DB9	32-bit PCI bus, dual DB-9 male, Nm9835CV chipset.	27.49	26.15

♣ Pull = Extra Savings



Interface Cards

NEW ON THE WEB

Adaptec 2120S – Ultra160 SCSI Raid Kit

- Single channel
- Intel 80302 (66MHz) µPROC
- Low profile form factor
- Windows® XP/NT/2000, Linux, Netware supported

Adaptec 2005S – Zero-Channel Ultra160 Raid

- 48MB on board ECC SDRAM
- 64-bit/64MHz PCI
- Adaptec AIC 7930W µPROC
- Supports up to 15 SCSI devices
- Credit card size
- Windows® XP/NT/2000, Linux, Netware supported

These products ship from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

See Our Complete Adaptec Interface Card Offering at www.Jameco.com/Prod/Adaptec

**Parallel Interface Cards**

Part No.	Manufacturer	Cross Ref. No.	Bus Type	Ports	Connectors	Product Description	1	10
146691CE	—	4006A	PCI	1	DB25	BPP/SPP mode compliant, Windows® 95/98/NT4.0 drivers supported.	\$23.95	\$21.95
171926CE	—	4008A	PCI	1	DB25	32-byte FIFO, 2MB/sec transfer rate, supports ECP and EPP, supports IRQ sharing, DB25 female.	39.95	35.95
163707CE	—	4014A	PCI	2	DB25	BPP/SPP mode compliant, Windows® 95/98/NT4.0 drivers supported.	26.55	24.15
312039CE	Kouwell	KW-508G-2	ISA	2	DB25	Dual DB25 female. ECP/EPP/SPP mode compliant, LPT port, IRQ selectable.	24.05	22.85
344874CE	SYBA	SD-PCI-1P	PCI	1	DB25	32-bit PCI, single DB25 female, NETMOS Nm9805CV chipset, IEEE 1284 compliant.	23.59	22.45

Serial and Parallel Interface Card

169594CE		4078A	PCI	—	DB25	BPP/SPP mode compliant, Windows® 95/98/NT4.0 drivers supported. Includes parallel DB25 female panel bracket assembly (single parallel / dual 16C550 serial).	\$56.95	\$54.09
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Super I/O Controller Cards

131318CE	—	KW-557A	ISA	—	Mult.	Supports 2 IDE and 2 floppy drives, single parallel port, dual RS-232 (16550 UART).	\$29.95	\$26.95
206316CE	—	CA8390	ISA	—	Mult.	16-bit data transfer, supports 2 floppy drives (360k-1.44Mb), controls 2 AT BUS hard disk drives.	11.09	10.09
291901CE	—	MCT-IDEFH-2	ISA	—	Mult.	16-bit interface, supports 2 IDE hard drives up to 528MB and 2 floppy drives from 360kb to 1.44Mb, jumper selectable for enabling and disabling ports.	28.89	25.99
149294CE	—	CI-2020	ISA	—	50-pin F	DOS/Windows® /NT/95/OS2 Network/SCO UNIX, internal and external SCSI connectors.	33.99	29.99
191513CE	Adaptec	AHA-2940U2B	PCI	—	68-pin F Ultra SCSI2	AIC-7890AB chipset, Windows® 95/NT, Netware, OS/2 compatible, internal/external ULTRA II SCSI 68-pin connectors.	29.95	26.95

Modem Card

311706CE	Dolphin	CX11252	PCI	—	RJ-11	300-56K data line speed, 2400-14.4K fax line speed, Group 3 w/ T.30 protocol compatible.	\$8.99	\$8.65
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Video Graphics Cards

248840CE	—	PS32985DR-8MB	PCI	—	HDDb15	Savage IX 8MB graphics accelerator, built-in direct draw accelerator and NTSC/PAL video encoder 4-bit resolution.	\$28.99	\$26.35
364111CE	ATI	109-54100-00	PCI	—	HDDb15	8MB graphics accelerator, Rage LT PRO AGP chipset, 7-pin TV-out and DFB connectors, Windows 98 and NT4.0 compatible.	29.99	28.49
345181CE	Giga-Byte	GV-R7064T	AGP	—	HDDb15	64-bit memory bus with ATI Radeon 7000 graphics processor, 183MHz core clock speed, 64MB DDR SDRAM.	40.49	40.30
345244CE	Giga-Byte	GV-N40128TE	AGP	—	HDDb15	64-bit memory bus with NVIDIA GeForce MX4000 chipset, 400MHz mem clock speed, 128MB DDR memory, supports TV-out and multiview.	57.55	54.50
345252CE	Giga-Byte	GV-N5212DE	AGP	—	HDDb15	64-bit memory bus with NVIDIA GeForce FX5200 chipset, 400MHz mem clock speed, 128MB DDR memory, supports TV-out, DVI port and multiview.	66.19	65.05
345261CE	Giga-Byte	GV-N5212DE	AGP	—	HDDb15	128-bit memory bus with NVIDIA GeForce FX5000 chipset, 500MHz mem clock speed, 300MHz core clock speed, 128MB DDR memory, supports TV-out, DVI port and multiview.	92.89	91.05

Sound Card

249404CE	Creative	CT4830	PCI	—	Multi	2-audio line-out (mini-stereo 3.5mm F), 1 microphone input (mini phono 3.5mm F), 1-audio line-in (mini-stereo 3.5mm F) and 1 game port (DB15F).	\$29.95	\$26.95
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♣ These products ship from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

♣ Blue Part No. = Limited Quantity Available



Flat Panel Speaker System

- Built-in amplifier
- Low distortion
- Magnetically shielded
- Designed for multimedia use
- Ultra thin satellite speaker and 3" subwoofer cone type speaker
- Frequency response: 80Hz-16kHz
- Power output: speakers - 1W +1W (RMS) subwoofer - 5W (RMS)
- Front access LED, power, and volume controls
- Size: satellite - 5"W x 7.5"H x 2.5"D subwoofer - 5.75"W x 5.5"H x 6.6"D



Includes: Power adapter

Part No.	Description	1	10
382740CE	Flat panel speaker	\$18.89	\$17.49

Dragon 180-Watt Multimedia Speakers

- 2-Channel stereo amplifier
- Magnetically shielded
- Two 3" 4Ω full-range speakers **SALE**
- Frequency response: 100Hz to 20kHz
- Front panel control for volume, power, 3.5mm mini stereo jack
- Size: 7.0"H x 3.0"W x 5.3"D • Weight: 2.0 lbs.



Power requirements: 2-prong 110VAC input

Part No.	Description	1	10	25
277229CE	180W speakers	\$9.99	\$8.99	\$8.09

Harman/Kardon Multimedia Amplified System

- 4.5W RMS per amplified speaker
- Transducer: 3" full range driver, magnetically shielded
- Freq. range: 90Hz to 20kHz
- Volume control, bass and treble control, LED indicator and headphone jack
- Size: 8.5"H x 4.5"W x 5.0"D • Weight: 4.7 lbs.



Includes: 16VAC @ 1A power supply

Part No.	Description	1	10
211001CE	H/K speaker system	\$12.95	\$11.65

480-Watt Multimedia Speakers

- 2 magnetically shielded speakers
- 2-channel stereo amplifier
- Push button type power switch with LED indicator
- Knob controls for volume, bass & treble
- Input voltage: 120VAC
- Size: 5.5"W x 7.0"D x 9.1"H • Weight: 5.3 lbs.



Part No.	Description	1	10
196066CE	480W speakers	\$39.95	\$35.95

PC Speakers **SALE**

Perfect for desktop PCs with limited amount of space. Compatible with any desktop PC.

- 3.5mm stereo male plug
- Size: 4.7"H x 3.0"W x 4.0"D



Part No.	Cross Ref. No.	1	5	10
311079CE	5065-5746	\$15.99	\$14.39	\$12.95

Speakers, PA's and Megaphones



NEW
ON THE WEB



The solution for your indoor and outdoor audio needs, mobile or fixed.

Commercial Audio

- All-in-one units with woofer and transformer

Indoor and Outdoor

- Two-way configurations
- Frequency response: 55Hz-20kHz

In-Wall and Ceiling

- EZ tabs for mounting



Megaphones

- Range: 500-800 feet
- Battery powered

PA Systems

- Weatherproof
- Impedance: 8Ω

These products ship from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

See Our Complete Speco Speaker Offering at
www.Jameco.com/Prod/SpecoSpeakers

Hands-Free Condenser Microphone

- Cord length: 8'
- Connector: 3.5mm male stereo plug
- Size: 1.9"L x 1.2"W x 0.3"H
- One-year warranty



Part No.	Description	1	10	50
135247CE	Microphone	\$4.49	\$3.99	\$3.65

Hands-Free Condenser Microphone

- Clip on microphone
- Cord length: 8'
- Connector: 3.5mm male stereo plug
- Size: 1.7"L x 1.3"W x 0.9"H



Part No.	Description	1	10	100
319759CE	Microphone	\$3.89	\$3.69	\$3.55

Industrial Gooseneck Microphone

- Dynamic
- Unidirectional
- On-Off switch on MIC head
- Flexible gooseneck
- 80Hz-16kHz
- 500Ω impedance
- Sensitivity: -54dB±3dB
- XLR 3-pin female connection



Part No.	Description	1	5
540701CE	Microphone ♦	\$34.79	\$31.29

♦ This product ships from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

Push to Talk Hand Held Microphone

- 5 wire
- 500Ω impedance
- For CB & professional communications
- Push to talk
- Unbalanced (TS) plug



Part No.	Description	1	5
540613CE	Microphone ♦	\$12.29	\$11.07

♦ This product ships from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

Internal Serial ATA, ATA-133 & Floppy Drive Cables



348710CE

348752CE

348795CE



348841CE



348824CE

Flat ribbon cables blocks airflow within a computer system, but with round internal cables, it will improve internal airflow in any computer system.

For additional drive cables see page 94.

Round Serial ATA cables

- Color: red
- 7-pin connector

Part No.	Description	Length	1	10	25
348710CE	90'	19.9" ...	\$4.69	\$4.11	\$3.91
348744CE	90'	39.4" ...	\$5.89	\$5.21	\$4.95
348728CE	180'	19.9" ...	\$4.69	\$4.11	\$3.91
348736CE	180'	39.4" ...	\$5.89	\$5.21	\$4.95

Round ATA-133 cables

- Dual 40-pin ATA-133/IDE

Part No.	Color	Length	1	10	25
348752CE	Blue	18" ...	\$4.69	\$4.27	\$4.05
348761CE	Black	18" ...	\$4.69	\$4.27	\$4.05
348779CE	Blue	24" ...	\$5.45	\$5.12	\$4.87
348787CE	Black	24" ...	\$5.45	\$5.12	\$4.87

Round Floppy Drive Cables

- 34-pin connectors

Part No.	Color	Length	1	10	25
348795CE	Blue	18" ...	\$6.59	\$6.59	\$5.77
348808CE	Black	18" ...	\$6.59	\$6.07	\$5.77
348816CE	Blue	24" ...	\$7.69	\$7.21	\$6.85

Serial ATA Power Cable Extension

- 15-pin serial ATA power connector to 4-pin power connector

Part No.	Size	1	10	25
348841CE	6'L x 18 AWG	\$2.79	\$2.56	\$2.43

IDE to Serial ATA Converter

- Converts 40-pin HDD connector to serial ATA connector

Includes: converter unit, power cables and serial ATA cable

Part No.	Description	1	10
348824CE	IDE to serial ATA	\$28.99	\$27.55

30-Day Money-Back Guarantee

If you're not completely satisfied with your purchase, simply return the product within 30 days for a refund or exchange. Details on page 284.

E-Mail Desktop Microphone

Add your voice to e-mail messages, with the touch of a button!

This revolutionary desktop device will change the way you use e-mail! Simply press a button and speak into the omnidirectional condenser mic, and the technology does the rest. In seconds, your recording is packaged and attached to a ready-to-send e-mail message, seamlessly and hassle-free. Included software facilitates file-management, and an optional add-on will even make an MP3 file from your words!



Part No.	Description	Price
315070CE	E-mail desktop microphone	\$41.95

Digital USB Voice Recorder

Pocket "secretary" captures all your great ideas.

Once you begin to use this sleek, feature & accessory-packed tapeless recorder, you'll wonder how you ever got along without it. Record up to 396 addressable messages totaling 9 hours (SP) or 18 hours (LP). They can be meetings, phone conversations, or audio from external devices, all in flawless digital clarity. USB connectivity quickly downloads your recordings to your PC. Included accessories: earphone, external (meeting) microphone, telephone adapter, audio cable, PC software, USB cable, and hand strap.



Includes all the accessories needed!

Part No.	Description	Price
237198CE	USB voice recorder, 9-18hrs	\$108.95

Mobile USB Light

Light up your laptop and work anytime, anywhere!

Whenever and wherever you need light on your keyboard, this USB-powered, flexible, plug-and-play LED lamp will deliver. Discreetly illuminate your keyboard during presentations in darkened boardrooms, or work on the plane without disturbing others.



Part No.	Description	Price
256436CE	Mobile USB light	\$9.99

Mobile USB Fan

This is so cool, you'll be its greatest fan!

Take advantage of a great deal on this innovative personal USB-powered fan for laptop computing! You'll enjoy the added comfort of features like a flexible gooseneck mount, soft nylon blades and quiet motor.



Part No.	Description	Price
256461CE	Mobile USB fan	\$8.99

Aluminum Hard Drive Enclosures

External aluminum enclosures from Bytecc help cool down HDD temperature to minimum levels.

NEW
ON THE WEB

2.5" and 3.5"

- Hot-swappable and plug-and-play capabilities
- USB 2.0 port
- Supports up to 300GB hard drives
- Includes 5V/2A and 12V/2A power supply
- Cable, manual, installation CD and base



BYTECC

These products ship from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

See Our Complete Bytecc Enclosure Offering at www.Jameco.com/Prod/ByteccEnclosures

Aluminum Enclosures

Aluminum enclosures from Coolmax for heat dissipation.

NEW
ON THE WEB

2.5" and 3.5"

- USB 2.0 & 1.1 compatible
- Supports up to 300GB hard
- 480Mbps transfer rate
- Plug-and-play
- PC/Mac compatible



These products ship from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

See Our Complete Coolmax Enclosure Offering at www.Jameco.com/Prod/CoolmaxEnclosures

Zynet External Enclosures

3.5" and 5.25"

NEW
ON THE WEB

- Plug-and-play
- PC/Mac compatible
- USB 2.0 and Firewire ports
- For use with CD/DVD and HD drives



These products ship from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

See Our Complete Zynet Enclosure Offering at www.Jameco.com/Prod/ZynetEnclosures

2.5" External USB Enclosure



- 2.5" external enclosure for 2.5" hard drives
- Transfer rate: 480Mbps (Ver. 2.0)
- Plug and play; hot-plug
- Compatible with Windows® 98/98SE/ME/2000/XP
- Bus powered through USB connector

Includes: USB cable with adapter and CD-ROM software drivers

Part No.	Description	1	10
354984CE	2.5" enclosure	\$29.39	\$27.89

3.5" Screwless Hard Drive Enclosure

- Screwless design
- USB 2.0 compliant
- IDE interface supports ATA, PIO, DMA, and UDMA hard drives
- Rugged aluminum body
- Plug and play, hot-swapping capability
- Power-on and read/write access LED indicators
- Size: 8.4"L x 4.7"W x 1.4"H



Includes: USB 2.0 cable, 12VDC @ 1.6A power supply and CD-ROM drivers

Part No.	Mfr. Part No.	1	5
344735CE	SD-U2PLA-35	\$31.45	\$29.89

5.25" Screwless HDD/CD-ROM Enclosure

- Screwless design
- USB 2.0 compliant
- Ultra-light plastic body
- Plug and play
- Audio jack for CD-ROM analog audio output
- Power-on and read/write LED indicators
- IDE interface supports ATA, PIO, ATAPI, DMA, and UDMA devices
- Supports Windows® 98/98SE/ME/2000/XP
- Size: 9.8"L x 6.5"W x 2.3"H



Includes: USB 2.0 cable, base, 12VDC @ 1.6A power supply and CD-ROM drivers

Part No.	Mfr. Part No.	1	5
344751CE	SD-U2DEL-525	\$44.89	\$42.65

5.25" Stackable CD/DVD/Hard Drive Enclosure



This 5.25" enclosure is designed to provide a solution in connecting existing storage devices such as 3.5" hard drives, MO drives, CDROM drives, and DVD drives to a USB 2.0 bus. An ideal interconnect for multimedia applications.

- Supports plug-n-play, hot-swap, and wake-up
- Peak data transfer rate of up to 480Mbps
- Accommodates all existing storage devices such as 3.5" IDE hard drives, MO drives, CD and DVD drives
- Compliant w/ USB specification Rev. 2.0
- ATA/ATAPI-6, LBA48, PIO Mode, DMA mode, and UDMA mode supported
- Light-weight plastic body
- Weight: 2.4 lbs.
- Size: 10.1"L x 6.5"W x 2.5"H

Includes: USB-A to USB-B cable, 12VDC @ 2.0A power supply and CD-ROM drivers

Part No.	Mfr. Part No.	1	5
344743CE	SY-UEN-5MYS-S	\$44.89	\$42.65

USB Keyboard Adapter

- USB-A female to 6-pin mini DIN male (PS/2)



Part No.	Description	1	10	25
316831CE	USB-A to PS/2	\$1.79	\$1.59	\$1.39

We're Listening to Your Requests

E-mail us at NewProducts@Jameco.com with suggestions for products you'd like to see in future catalogs.

10" B&W Security Monitor w/ Audio

- EIA format
- 9" viewable screen
- Resolution: 700 line
- Push down front panel for volume and power switch
- BNC jacks for audio/video input
- Input voltage: 120VAC @ 60Hz (2-prong 5' cable)
- Size: 9.3"W x 12"D x 9.1"H
- Weight: 15 lbs.



Includes: Manual

Part No.	Description	1	10
253067CE	10" black & white monitor ..	\$109.05	\$89.95

15" SVGA Color Monitor*

- 0.28mm dot pitch
- Resolution: 1280 x 1024 @ 60Hz
- Digital panel control
- Input voltage: 100-240VAC, 50/60Hz (auto switching)
- Power, contrast, brightness, horizontal/vertical size position, recall & trapezoid front control
- HDDB15 male connector
- UL/CSA/TUV appr.
- Size: 14.5"W x 16"D x 14.6"H
- Weight: 70 lbs.



Includes: Power cable, tilt and swivel base

* Refurbished = Backed by Jameco

Part No.	Description	1	10
153306CE	13.5" monitor viewable ♦	\$99.95	\$89.95

XBOB-NC Video Text Module

XBOB integrates Decade's third-generation OSD technology into a convenient plug & play format.

The command set is nearly identical to that of our popular BOB-3 module (see below), and XBOB includes all of the optional circuitry described in the BOB-3 Application Guide. XBOB lets your PC display up to 680 characters on standard video monitors and TV sets. With 63 user-definable character patterns, XBOB supports pseudo-graphics and multiple languages. XBOB generates video on-board, or automatically genlocks to your video source and superimposes characters over the image. Printable characters and commands control XBOB through a fast RS-232 data link, much like a simple serial printer.

- Higher display density; 40x17 characters (680 max.)
- 254 ROM character patterns plus 63 user-definable RAM characters
- Character size control
- Horizontal (1 line) and vertical smooth scrolling (up to 16 lines)
- Faster & more reliable host communication
- Stand-alone operation, for simple source ID or fixed reticle applications
- Improved automatic video mode control

Part No.	Description	1	10
283768CE	XBOB video text module	\$189.95	\$179.99
237243CE	9VDC power supply	3.79	3.45
283776CE	Serial cable	9.95	8.95

SALE



5.6" Color TFT Monitor

NTSC Format

- TFT color LCD display
- 224 x 640 pixel display resolution
- Built-in 1 watt speaker
- Brightness, color and volume adjustments
- Video input: 1.0Vp-p; 75Ω
- Audio input: 2Vp-p; 2kΩ
- Size: 6.1"W x 1.2"D x 4.8"H
- Weight: 2.6 lbs.



Includes: RCA cable, mounting stand with hardware and 12VDC @ 500mA power supply

Part No.	Description	1	10
201702CE	5.6" TFT color monitor	\$279.95	\$259.95

4" TFT LCD Monitor

NTSC Format

- TFT color LCD
- Resolution 234 x 383dpi
- Backlight: cold cathode fluorescent lamp
- Power source: 12VDC @ 400mA
- 5" long lead wire with 4-position Molex-type power connector
- Tint color and brightness adjustable
- Size: 4.1"L x 3.3"W x 0.7"H (display)
- Size: 4.7"L x 3.3"W x 1.3"H (unit)
- Weight: 0.7 lbs.



Part No.	Description	1	10
172742CE	4" color LCD monitor	\$159.95	\$149.95



AverKey Pro PC-to-TV Converter Box

- Converts VGA video or Macintosh® 640 x 480 to standard NTSC
- Built-in flicker filter
- Resolution: 800 x 600
- TV brightness control
- Compatible w/ Microsoft® Windows® 3.0 and higher
- Weight: 2.2 lbs.
- Two-year warranty



System requirements: VGA-based PC, DOS 3.0 or higher, 640kB RAM or larger

Includes: PC-to-TV converter, adapter, cables & manual

Part No.	Description	1	10
167193CE	Video signal pro	\$89.95	\$81.65

For Our Complete Selection of Security Products
See pages 234-238



BOB-3 Video Text Module



BOB-3 is Decade's third-generation low-cost video text overlay module. BOB-3 lets your microcontroller or PC display up to 680 characters on standard video monitors and TV sets. With 63 user-definable characters, BOB-3 supports pseudo-graphics and multiple languages. BOB-3 generates video on-board, or automatically genlocks to your video source and superimposes characters over the image. Printable characters and commands control BOB-3 through a fast RS-232 style data link, much like a simple serial printer. BOB-3 is compatible with most microcontroller chips and modules, including the BASIC Stamp.

- Higher display density; 40x17 characters (680 max.)
- Faster & more reliable host communication
- Software-controlled digital outputs (6)
- Improved automatic video mode control
- Stand-alone operation, for simple source ID or fixed
- Character size control reticle applications
- 254 ROM character patterns plus 63 user-definable RAM characters
- Horizontal (1 line) and vertical smooth scrolling (up to 16 lines)

Part No.	Description	1	10
283733CE	BOB-3 video text module	\$99.95	\$94.95

ezVID Serial Video Module

The ezVID Serial Video Module gives microcontrollers the ability to generate text and graphic images on monitors, televisions, and similar-type equipment that accepts composite NTSC video signals. This is a nice alternative to applications where you don't want to use LEDs and LCDs. The ezVID provides for professional applications such as text messaging, diagnostics and status indication, but is also useful to the enthusiast user for applications in simple video games and graphics. The simple ezVID serial commands allow placement of any built-in or user defined character anywhere on the screen in any one of fourteen colors. An on-board controller and special video chip designed by Multilabs allows simple color video generation with only two asynchronous serial communication lines. The ezVID is compatible with most microcontrollers, including the BASIC Stamp.

- 9600 baud TTL level serial interface
- True bitmap display with no character cells
- 63 built-in standard characters
- Standard composite NTSC non-interlaced video output

- Screen resolution of 188 by 254
- 14 different colors available
- 256 user-definable characters
- Easy to use SIP package only measuring 2" by 2"



Part No.	Description	1	10
355856CE	Serial video module	\$59.95	\$55.95

Committed to You

We're committed to providing you with the best service in the industry.



Keyboards

Part No.	Mfr.	Product No.	Interface	Description	Fig.	Size (L"xW"xH")	Wt. (lbs.)	1	10	25
311183CE	—	HMB-631PUS	PS/2	84-key soft touch mini keyboard w/ track point mouse.	1	12.3x6.0x1.2	—	\$46.49	\$44.15	\$41.95
114868CE	—	MCK-84SX	5-pin DIN	84-key tactile keyboard, Windows 95 compatible.	2	12.8x6.6x1.0	—	49.95	44.95	38.95
211756CE	—	WK-540	5-pin DIN	88/89-key soft touch keyboard w/ touchpad, windows compatible.	3	11.4x8.5x1.2	2.3	59.95	53.95	48.95
191530CE	COMPAQ	1PRT235BT	PS/2	101-key tactile keyboard w/ separate cursor and numeric keys, 12 function keys (recommend adapter P/N 159089CE).	4	18.3x6.5x1.3	3.6	18.95	16.95	14.95
308793CE	IONE	Scorpius-2K	PS/2	103-key soft touch keyboard, Windows® 98SE/2000/ME/XP compatible.	5	15.9x6.5x1.3	—	39.95	35.95	32.49
319661CE	IONE	Gemini-M1	PS/2	104-key soft touch wireless keyboard w/ 12 multimedia and function keys and 2-button optical scroll mouse. 5AA batteries included.	6	17.6 x 7.5 x 1.6	2.2	28.49	26.99	25.69
173649CE	—	SUN 3201256-1	PS/2	104-key tactile keyboard w/ 12 function keys, separate arrow & numeric keys.	7	18.2x7.0x1.5	2.7	12.95	11.65	8.55
128718CE	IONE	Scorpius 35PU/NET	PS/2	104-key tactile keyboard w/ built-in jumbo trackball. N-key rollover. Includes software and USB adapter; beige.	8	19.0x16.8x1.4	3.7	99.95	94.75	89.55
249551CE	IONE	Scorpius 35PU/NET (black)	PS/2	104-key tactile keyboard w/ built-in jumbo trackball. N-key rollover. Includes software and USB adapter; black.	8	19.0x16.8x1.4	3.7	99.95	94.75	89.55
308101CE	Labtech	967360-0403	PS/2	104-key RF keyboard and 3-button optical scroll mouse. Multimedia hot-keys. Includes installation guide and 4AA batteries.	9	18.0x8.7x1.6	4.5	37.25	35.49	33.69
263521CE	—	RT3604	USB	104-key soft touch USB keyboard w/ 12 function keys, separate cursor and numeric keypad. Extra ports on side and rear.	10	18.6x7.8x3.8	3.8	16.25	15.45	14.65
319812CE	PC Concepts	ICIA	PS/2	107-key soft-touch keyboard w/ programmable function keys for internet/utility/office, and multimedia. Software included.	11	17.5 x 5.7 x 0.8	1.8	13.79	12.41	11.79
235563CE	—	S20312	PS/2	Illuminated keyboard w/ 12-function keys, wake-up button, on/off switch, and separate keypad.	12	15.3 x 5.9 x 1.3	1.7	56.75	51.57	46.88
354950CE	COMPAQ	KB-9965	PS/2	107-key soft-touch keyboard w/ 12 function keys.	13	18.5 x 6.5 x 1.4	1.3	17.99	16.19	15.37

Keypads

265375CE	QTRONIX	Scorpius 22RB	Serial	22-key serial tactile keypad w/ 2-key rollover and auto repeat function. Includes manual and drivers.	14	6.2x4.2x1.3	0.8	\$39.95	\$35.95	\$32.49
319054CE	—	KB22APB	PS/2	22-key PS/2 tactile keypad. Includes PS/2 to AT adapter.	15	—	—	33.69	31.99	30.39
448753CE	Cherry♣	G80-3700HAAUS-0	AT	21-key numeric pad, 20 programmable keys; lt. grey	16	7.7x4.25x1.5	—	98.29	88.47	79.63
449043CE	Cherry♣	G80-3700LQAUS-0	PS/2	21-key numeric pad, 20 programmable keys; lt. grey	16	7.7x4.25x1.5	—	86.05	77.44	65.25
449254CE	Cherry♣	G84-4700PPBUS	PS/2	21-key numeric pad, 20 programmable keys; beige	17	—	—	70.05	58.84	54.89
449262CE	Cherry♣	G84-4700PRBUS	PS/2	21-key numeric pad, 20 programmable keys; black	17	—	—	70.05	58.84	54.89
449271CE	Cherry♣	G84-4700PUCUS-2	USB	21-key numeric pad, 20 programmable keys; black	17	—	—	70.05	58.84	54.89
449289CE	Cherry♣	G84-4701PRBUS	PS/2	21-key numeric pad, 20 programmable keys; grey	17	—	—	75.45	68.59	61.75

♣ These products ship from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

Cherry Keyboards

NEW ON THE WEB

Cherry sets the pace for new interface and device support such as USB, OPOS/JPOS, smart card and fingerprint technology. Cherry keyboards are designed to meet your needs.

- Full and compact styles with 101 or 104 keys
- Multimedia boards with 129 keys
- Notebook styles with 83 or 86 keys and integrated trackball
- Programmable keys
- Integrated touchpads, smart card reader/writers, and fingertip sensors
- Integrated magnetic stripe readers (reads any ISO & AAMVA compliant cards)
- PS/2 and USB interfaces

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See Complete Keyboard Offering at www.Jameco.com/Prod/CherryKeyboards

Microsoft, BenQ and AOpen Keyboards

NEW ON THE WEB

BenQ X730 Companion Pro
BenQ X120 Internet Keyboard
BenQ X120 Internet Keyboard Pro
Microsoft Natural Keyboard Elite
Microsoft Multimedia Keyboard
Microsoft Wireless Optical Desktop
Microsoft Wireless Optical Desktop Comfort Edition
AOpen S500 Multimedia Keyboard

- Wireless keyboard and optical mouse combinations
- PS/2 and USB interfaces
- Internet hot keys
- Most have 107 keys
- X-structure technology

These products ship from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

See Complete Keyboard Offering at www.Jameco.com/Prod/OtherKeyboards



Fig. 1



Fig. 2

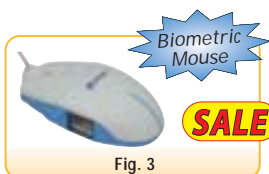


Fig. 3



Fig. 4



Fig. 5



Fig. 6

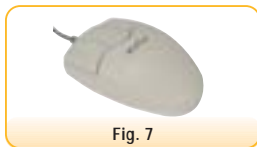


Fig. 7



Fig. 8



Fig. 9



Fig. 10

Part No.	Mfr.	Product No.	Type	Interface	Description	Fig.	Size (L" x W" x H")	1	10	25
265471CE	—	—	Optical	USB	Mini optical mouse	1	3.7 x 2.2 x 1.3	\$17.89	\$16.99	\$16.15
395612CE	IONE	LYNX-L7R	Optical	USB-PS/2	Mini optical mouse w/ retractable cable and USB-PS/2 adapter	2	3.9 x 2.3 x 1.5	29.95	26.95	24.25
262625CE	Nitgen	—	Optical	USB	EyeD USB OptiMouse w/ biometric recognition software	3	5.1 x 2.5 x 1.5	115.95	110.19	99.99
354976CE	—	C1-8B-2061-BB	Optical	USB-PS/2	3-button with optical wheel with USB to PS/2 adapter	4	4.2 x 2.1 x 1.6	11.29	10.75	10.19
265447CE	Memorex	32022378	Optical	PS/2	5-button wireless optical ScrollPro w/ PS/2 to USB adapter	5	4.9 x 3.0 x 1.6	29.95	28.45	27.29
213330CE	Shape	88803	Mechanical ball	PS/2	2-button retractable cord travel mouse	6	4.5 x 2.4 x 1.1	7.39	6.75	6.40
288972CE	Roltek	K3P400A	Mechanical ball	PS/2	3-button PS/2	7	4.2 x 2.5 x 1.3	4.95	4.49	4.05
354223CE	—	—	Mechanical ball	DB9 female	3-button serial	8	4.3 x 2.6 x 1.6	6.15	5.23	3.92
305082CE	IONE	Libra-90	Trackball	PS/2	PS/2 trackball with USB adapter	9	5.6 x 4.7 x 1.9	29.95	26.95	24.25
121363CE	—	—	—	—	Mini mouse pad	10	7.0L x 5.5W	3.79	3.19	2.35

Blue Part No. = Limited Quantity Available

Additional Wireless and Optical Mice

- PS/2 and USB interfaces
- Rechargeable
- Programmable hot keys
- Low power consumption
- Sleeping power saving mode
- Mini (notebook) styles
- High-resolution sensors
- Ergonomic designs
- Scroll wheel

NEW
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Available mice:

BenQ M306 Wireless Optical Mouse

AOpen RO-27G: Wireless Optical Mouse

Logitech SBF96 Optical

Spec Research H5-3003

Spec Research HC-2002

Microsoft IntelliMouse

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Clip-on Mouse Pad

Organize and maximize your workstation.

Tired of trying to work without enough space? Free up your desk space with this convenient clip-on mouse platform. No drilling required—clamps on securely to your desk or workstation without damaging the desk. This unit also stores completely below your desk so you don't have to see it when it's not in use. Includes a cord clip to keep mouse cords tangle-free and in position.



Part No.	Description	Price
249105CE	Clip-on mouse pad	\$6.99

Power Inverters

150-Watt DC-to-AC Inverter

- Input voltage: 10-15VDC
- Output voltage: 110VAC @ 60Hz
- Peak power surge capable
- Overload & thermal protection
- Battery low shutdown
- Weight: 1.3 lbs.



Part No.	Description	Dimensions	1	10	25
277181CE	150W auto plug	4.8"L x 2.9"W x 1.8"H	\$28.95	\$27.49	\$26.15

75-Watt DC-AC Inverter

- 75 watts continuous power
- Peak surge power: 200W
- AC output voltage: 115VAC
- AC output frequency: 60Hz
- DC input voltage range: 10 – 15VDC
- Auto reset short circuit protection
- Overload protection/low battery alarm/low battery shutdown
- Single AC receptacle
- Optimum efficiency: 90%



Part No.	Description	Dimensions	Price
307791CE	75W inverter	4.8"L x 1.6"W x 2.4"H	\$26.95

150-Watt DC-AC Inverter

- 150 watts continuous power
- Single AC receptacle
- Peak surge power: 450W
- Optimum efficiency: 90%
- AC output volt.: 110V ±5VAC
- AC output frequency: 60Hz
- DC input voltage range: 10 – 15VDC
- Auto reset short circuit protection
- Built-in thermal cooling fan
- Overload protection/low battery alarm/low battery shutdown



Part No.	Description	Dimensions	Price
307811CE	150W inverter	5.0"L x 1.9"W x 2.9"H	\$34.95

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150 to 400-Watt PC Power Supplies

SALE



201435CE



308814CE



312872CE



202788CE



196189CE



172822CE

ATX Power Supplies

Part Number	Mfr.	Product Number	Power (W)	Output (VDC/A)	Input (VAC @ Hz)	Input Connector (Mating Connector/Cord)	Output Conn. (Mating Conn.)	Certification	Size (L" x W" x H")	Wt. (lbs.)	Pricing		
											1	10	25
201435CE	Xtreme Power	EPA400 *	400	+3.3/33, +5/45, +12/15, +5VSB/1, -5/1, -12/1	115/230 @ 47-63 switchable	3-prong AC receptacle with 6' power cord	ATX	UL/CSA/TUV/CE	5.6 x 5.9 x 3.4	5.0	\$55.95	\$50.36	\$45.32
308814CE	Powmax	LP6100D *	400	+3.3/28, +5/30, +12/25, -5/0.3, -12/0.8, +5VSB/2	115/230 @ 60 switchable	3-prong AC receptacle w/ 6' power cord	ATX	UL/CUL/TUV/CE	5.9 x 5.6 x 3.4	3.5	54.95	52.20	49.59
319994CE	3Y Power Technology	AP-1250-1112	250	+3.3/20, +5/25, +12/12 +5VSB/3, -5/5, -12/0.5	100-240 @ 50-60 switching	3-prong AC receptacle (P/N 38050CE, pg 204)	ATX	UL/CUL/TUV/CE	7.6 x 4.0 x 2.6	2.9	39.19	37.25	35.39
152194CE	American Media	JE2031	250	+3.3/14, +5/25, +12/10, +5VSB/1.5, -5/0.5, -12/0.5	115/230 @ 50-60 switchable	3-prong AC receptacle with 6' power cord	ATX	UL/CSA/TUV	6.0 x 5.5 x 3.4	3.5	44.95	40.45	36.39
312872CE	PC Power	STD-250 ATX *	250	+3.3/16, +5/25, +12/13, +5VSB/2, -5/0.3, -12/0.5	115/230 @ 50-60 switchable	3-prong AC receptacle with 6' power cord	ATX	UL/CUL/CE	6.0 x 5.6 x 3.4	3.5	19.95	18.95	17.95
152514CE	High Power	JE8250	250	+3.3/16, +5/25, +12/10, +5VSB/1.5, -5/0.5, -12/0.5	115/230 @ 50-60 switchable	3-prong AC receptacle with 6' power cord	ATX	UL/CSA/TUV	5.5 x 5.9 x 3.4	3.3	44.95	40.45	36.39
421657CE	Powertronic	PKI800T3	200	+3.3/14, +5/22, +12/6, +5VSB/0.1, -5/5, -12/0.8	115/230 @ 50-60 switchable	3-prong AC receptacle (P/N 38050CE, pg 204)	ATX	UL/CSA/TUV	6.0 x 5.6 x 3.3	3.3	19.95	18.95	17.95
202788CE	Enhance	SFX2015 *	150	+3.3/7, +5/12, +12/5, +5VSB/0.8, -5/0.2, -12/0.3	115/240 @ 47-63 switchable	3-prong AC receptacle (P/N 38050CE, pg 204)	ATX	UL/CUL/TUV/CE	5.9 x 3.6 x 3.4	2.1	29.95	25.46	19.09
196189CE	Emacs	MPW-6150F *	150	+3.3/6, +5/10, +12/6, +5VSB/0.72, -5/0.2, -12/1	115/230 @ 50-60 switchable	3-prong AC receptacle (P/N 38050CE, pg 204)	ATX	UL/CUL/TUV/CE	7.5 x 4.0 x 1.6	2.5	34.95	31.45	27.85

AT Power Supplies

233525CE	Sparkle Power	SPI-230G	230	+5/23, +12/9, -5/0.5, -12/0.5	115/230 @ 50-60 switchable	3-prong AC receptacle (P/N 38050CE, pg 204)	AT	UL/CSA/TUV	5.9 x 5.5 x 3.4	2.0	\$24.95	\$22.45	\$20.19
172822CE	Mean Well	AA-230 *	200	+5/20, +12/8, -5/0.5, -12/0.5	115/230 @ 50-60 switchable	3-prong AC receptacle with 6' power cord	AT	CSA/TUV/CE	6.0 x 4.6 x 3.4	2.6	49.95	44.96	40.46

* See photo above

Blue Part No. = Limited Quantity Available



Seasonic PC Power Supplies

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- ATX 12x compliant
- Supports Pentium 4 & Athlon XP
- Power ranges: 200W to 600W
- Low ripple & noise
- Short circuit, over-voltage, and over-power protection
- Power factor correction
- Full range input



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Etasis PC Power Supplies

- Input voltage: full range
- Active PFC correction
- Built-in cooling fan
- Rackmount 2U, 3U and 4U form factors
- N + 1 redundant configuration
- Over-current, over-voltage, and over-power protection



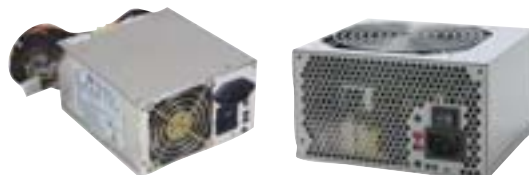
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Sparkle PC Power Supplies

- Watt range: 90W to 650W
- ATX form factor
- Input voltage range: 90-132V/180-264VAC manual selection or 90-265V full range @ 47-63Hz
- UL, CSA, TUV, VDE approved
- Medical grade or PC applications
- PC power supplies for Pentium 4 & Athlon XP



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Jameco's Got the Docs

We offer free technical documents for most of the products we carry. Find them easily on the product specification pages at www.Jameco.com



Fig. 1



Fig. 2



Fig. 3



Fig. 4



Fig. 5



Fig. 6



Fig. 7



Fig. 8



Fig. 9



Fig. 10

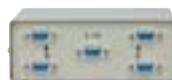


Fig. 11



Fig. 12



Fig. 13



Fig. 14



Fig. 15



Fig. 16



Fig. 17



Fig. 18

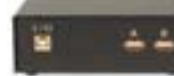


Fig. 19

KVM Switchboxes

Part No.	Mfr.	Fig.	Mfr. Part No.	Description	Connectors	Size (L" x W" x H")	Wt. (lbs.)	1	10
114155CE	—	1	40H1-14402	2-way keyboard / mouse switchbox (2PCs to 1 user)	HDDB15 female / 5-pin DIN female	6.0 x 4.0 x 2.3	1.3	\$14.95	\$13.49
216063CE	—	2	KS102	2-way KVM switchbox (2PCs to 1 keyboard/mouse/monitor)	PS/2 female for keyboard & mouse, HDDB15 female for monitor. Recommend gender changer P/N 119301CE pg 128 when ordering P/N 204062CE (6 ft. PS/2 cable) see below	4.3 x 3.0 x 1.2	0.6	47.99	43.65
310826CE	—	3	KVM2717	2-way KVM switchbox (2PCs to 1 keyboard/mouse/monitor)	PS/2 female for keyboard & mouse, HDDB15 female for monitor. Requires 9.5VDC@500mA power supply - recommend P/N 100175CE pg 198	4.7 x 4.0 x 1.8	1.5	49.19	46.75
310842CE	—	4	2-PRT KVN-USB	2-way KVM switchbox (2PCs to 1 keyboard/mouse/monitor)	User connectors: PS/2 female for keyboard & mouse, HDDB15 female for monitor to PC connectors: 2 HDDB15 male for monitor,	2.9 x 2.7 x 1.1	1.5	82.29	78.15
310834CE	—	5	KS104	4-way KVM switchbox (4 PC's to one user)	PS/2 female for keyboard & mouse, HDDB15 female for monitor; Recommend P/N 202180CE pg 162 for power supply	7.4 x 2.9 x 1.3	7.1	112.49	102.26
149391CE	ATEN	6	CS-114A	4-way KVM switchbox (4 PCs to one user)	DB9 serial female / PS/2 keyboard & mouse (recommend P/N 204062CE for PS/2 cable see below) Includes manual and power supply	10.0 x 7.0 x 3.0	7.1	179.85	162.59
132249CE	—	7	40H1-25602	2-user switchbox (1PC to 2 users)	Keyboard (5-pin DIN male); Monitor (DB15HD female); Mouse (DB-9 male). Recommend P/N 114913CE (5-pin M-M cable); P/N 66173CE (DB15HD M-M cable); P/N 132345CE (DB9 F-F cable) pg 95	7.5 x 5.3 x 2.8	1.6	17.95	15.95
79177CE	—	8	40H1-07402	2-way keyboard / monitor switchbox (2 users to 1 PC)	HDDB15 female / 6-pin DIN female	6.0 x 4.5 x 2.6	1.3	19.95	17.95
134017CE	—	9	40H1-25604	4-user switchbox (1PC to 4 users)	Keyboard (5-pin DIN male); Monitor (DB15HD female); Mouse (DB-9 male). Recommend P/N 114913CE (5-pin M-M cable); P/N 66173CE (DB15HD M-M cable); P/N 132345CE (DB9 F-F cable) pg 95	7.5 x 5.3 x 2.8	2.3	21.95	19.95

Serial-to-PC Switchboxes

79126CE	—	10	40D1-10602	2-serial port switchbox	DB9 female (2-ports to 1PC)	6.0 x 4.8 x 2.5	1.2	\$9.95	\$8.95
183417CE	—	11	—	4-serial port switchbox	DB9 female (4-ports to 1PC)	6.1 x 4.0 x 2.2	1.3	19.95	17.95

Network-to-Server Switchbox

180099CE	—	12	40R2-01604	4-server RJ-45 switchbox	4 RJ45 8P8C female (network devices to 4 servers)	8.0 x 6.1 x 2.2	2	\$14.95	\$13.49
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Fax/Modem/Telephone-to-PC Switchbox

79142CE	—	13	40R1-01602	2-PC RJ-11 switchbox	RJ-11 6P6C (fax/modem/telephone to 2PCs)	6.0 x 4.8 x 2.5	1.2	\$9.95	\$8.95
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Parallel Printer-to-PC Switchboxes

20095CE	—	14	40D3-17602	2-port switchbox	DB25 female (2PCs to 1 printer)	6.0 x 5.8 x 2.3	1.4	\$8.95	\$7.95
155512CE	—	15	CURTIS DS3	2-port switchbox	DB25 female (2PCs to 1 printer) includes 25' DB25 M-M cable	7.2 x 4.9 x 2.5	2.3	3.79	3.44
20124CE	—	16	40D3-17604	4-port switchbox	DB25 female (4PCs to 1 printer)	6.0 x 4.0 x 2.4	1.5	14.95	13.49
177412CE	ATEN	17	AS-451P	4-port auto switchbox	DB25 female (4PCs to 1 printer)	—	0.5	6.49	5.85
289211CE	—	18	25F6	6-port switchbox	DB25 female (6PCs to 1 printer)	7.6 x 6.0 x 2.5	2.2	23.15	20.85

USB-to-PC Switchbox

310818CE	—	19	USB-2PORT	2-way USB switchbox	1 USB-B female; 2 USB-A female	5.1 x 3.7 x 1.8	2.5	\$26.19	\$24.89
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Linksys SR2016 16-Port 10/100/1000 Gigaswitches

- 16 10/100/1000Mbps half/full duplex, switched ports
- Forwards and filters packets at non-blocking, full-wire speed
- Auto speed negotiation and auto MDI/MDI-x crossover detection



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PS/2 Cable

- Use with P/Ns 216063CE & 149391CE above

Part No.	Description	1	10
204062CE	6' PS/2 cable	\$16.95	\$15.29



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ATX Vertical Full Tower Case

- Slide-off side panel access
- LED indicators for power and HDD activity
- Front panel reset switch and power switch
- Internal 8Ω speaker
- 5 exposed 5.25" bays, 3 exposed 3.5" bays, 2 internal 3.5" bays
- Size: 7.5"W x 16.8"D x 24.5"H
- Weight: 25 lbs.

SALE



Part No.	Description	1	10
292066CE	ATX full tower	\$33.39	\$30.34

Short Haul Modem

- Up to 38,400 baud
- Will communicate over 6.3 miles of cable
- No external power required
- DCE/DTE selectable
- Xon-Xoff or hardware handshaking
- RS-232 interface (DB25 female)



Part No.	Description	1	10	25
116581CE	Short haul modem	\$29.95	\$26.95	\$23.95

External 56kbps Fax/Modem with Digital Answering Machine

- Digital telephone answering machine with voice mail system
- RS-232 (DB9 female) interface
- Modem speed: 300-56000bps
- Error correction: ITU-T V.42, MNP2-4
- Data compression: ITU-T 1.42bis, MNP5
- Flow control: RTS/CTS, Xon/Xoff
- Fax/modem line speed: 2400-14400bps
- Standard compatibility: ITU-T V.17, V.27 ter, V.29
- Command set: Class 1, 1.0, 2 and associated AT command sets
- Size: 6.3"L x 4.0"W x 1.3"H



System requirements: Pentium® or PC compatible with 16MB of memory, available RS-232 slot; Windows® 9x/ME/NT4.0/2000/XP

Includes: RS-232 cable (DB25/DB9 female to DB9 male); phone cord, 9VAC@1A power supply, CD-ROM drivers and manual

Part No.	Description	1	10
216493CE	Serial modem (Rockwell)	\$39.35	\$35.79

USB Fast Ethernet Adapter

- Plug and Play
- IEEE802.3 (10 BaseT) and IEEE802.3 (100 BaseT) specification compatible
- USB Rev 1.0 and 1.1 compatible
- Supports OHCI and UHCI
- 1 upstream USB port and RJ-45 port
- Supports Windows® 98/ME/2000/XP
- Self-powered



Part No.	Description	1	5	10
310797CE	USB-Ethernet Adapter	\$21.69	\$19.55	\$17.55

USB Modem Adapter

This UC-232 USB serial modem adapter provides an external plug and play RS232 modem connection for PCs, notebooks, laptops, and handheld computing devices that support the USB specification.

- Data transfer rate: determined by modem
- Power consumption: 90mA
- Power mode: bus powered
- Size: 3.2"L x 2.2"W x 0.9"H

Includes: DB-25 male connector and USB type A cable

Part No.	Description	1	10
355696CE	USB modem adapter	\$15.45	\$13.95



UTP Ethernet Cable Tester

- Connector type: RJ45 8P8C
- System used: 258A, 356A, AT&T/Ethernet 10BaseT
- Miswire, open, short tests

Requires: 9V battery (recommend P/N 151095CE, pg 206)

Includes: Zipper case

Part No.	Size (L x W x H)	1	10
115895CE	4.5" x 2.5" x 1.3"	\$29.95	\$26.95



Modular Cable Tester

Easily read correct pin configuration of 10baseT, 10base2, RJ45/RJ11 modular cables, 258A, TIA568A/568B, token ring, etc.

- Check for cable continuity, miswiring, open, short, grounding, and pin configurations
- One-year warranty
- Cable adapters: RJ45 M-M, 2 RJ45M-BNCM & BNC F-F
- On-board conn.: 2 RJ45F (tester) & 1 RJ45F (remote)
- Size: 4.0"L x 2.5"W x 1.0"H (Main console)
- Size: 4.0"L x 1.3"W x 1.0"H (Remote)

Includes: Manual and test cables

Part No.	Description	1	10
145710CE	Modular cable tester	\$84.95	\$76.49

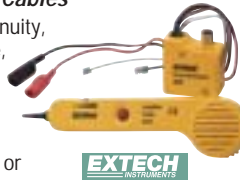


Tone Generator & Amplifier Probe For Tracing Wires & Cables

- Tests wire trace, continuity, clear/busy/ringing line, tip/ring identification
- Insulated inductive probe tip prevents shorting conductors
- Selectable continuous or variable tone generation
- Output jacks for both headphones and handsets

Includes: Alligator test leads, modular phone connector cables, 9V battery, and carrying pouch

Part No.	Description	1	10
198002CE	Tone gen. & amp. probe	\$79.95	\$71.95

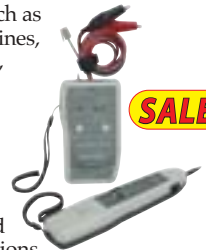


Net Toner and Probe Kit

With testing functions such as sending tones, verifying lines, indicating line conditions, identifying tip and ring, providing "talk" battery and testing continuity, you can use this kit on single conductor, twisted pairs, coaxial cables, and non-energized electrical wiring. Connections include alligator clips, RJ45 jacks and RJ12 plugs.

Includes: Padded zipper case w/ belt loop & spare tips

Part No.	Description	1	5
227897CE	Net toner & probe kit	\$69.85	\$63.50



SALE

Single-Line Telephone Filter

In-line Z-BLOCKER® filter blocks interference between DSL/HPN, voice and RF from cordless phones. Plugs directly into any standard phone jack and works with any single line phone, fax or dial-up modem.

Part No.	Description	1	10	25
196429CE	Telephone filter	\$7.95	\$7.15	\$6.25

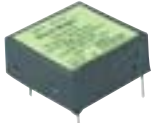


Black Magic Telephone Ringing Generator

Switching inverter that produces low-frequency alternating current to signal telecom ringers or equivalents.

- Series resistor: 300Ω
- Nominal output voltage: 86Vrms
- No reverse polarity protection
- Frequency: 20Hz

Part No.	Product No.	1	10	25
145816CE	LBMR12	\$26.95	\$24.49	\$21.95



Bidirectional Non-Buffered Serial-to-Parallel Converter

- Bidirectional conversion of parallel and serial signals
- Serial interface: hardware handshake RTS/CTS, software handshake Xon/Xoff; DCE/DTE selectable; parity: odd, even, or no parity; data bits: 7, 8
- Connectors: one DB25 female and one Centronics 36-pin male
- Baud rate: 300 to 38,400bps
- Stop bits: 1 or 2
- Size: 4.0"L x 2.5"W x 1.0"H
- Weight: 0.8 lbs.
- One-year warranty

Includes: AC adapter (9VAC @ 200mA) and manual

Part No.	Description	1	10	25
116935CE	Bi-converter	\$49.95	\$44.95	\$39.95



Bidirectional Serial-to-Parallel Converter

115.2kbps, 512kB Buffer

- One DB25 female connector, one Centronics 36-pin male connector
- Fully compatible w/ Win® 95
- Baud rate: 300bps – 115,200bps
- FCC class A certified, CE certified
- LED indicator for parallel busy status
- DCE/DTE selectable
- Size: 3.8"L x 2.4"W x 1.0"H
- Stop bits: 1 or 2
- Weight: 0.8 lbs.
- One-year warranty

Includes: 9VAC @ 200mA adapter

Part No.	Description	1	10
182983CE	Serial/parallel converter	\$48.49	\$44.95



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LINKSYS

Linksys BEFSR41-Etherfast® Cable/DSL Router with 4-Port Switches

- Share a high speed cable/DSL internet connection with multiple computers
- Built-in switch connects 4 PCs directly or daisy-chains out to more hubs
- Supports DHCP and PNP

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intel

Intel PRO/1000 MF Dual Port Gigabit Server Adapters

- High performance via 64-bit PCI bus
- IEEE 802.3z compatibility
- Intel 82.546 gigabit controller
- Large send-off load/TCP segmentation off-load

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www.Jameco.com/Prod/IntelNetwork

ATEN

RS-232 to RS-485/422 Bidirectional Converters

- Cable length: 4000' max.
- Data rate: 1MB/second
- Controlled by RTS signal
- 4-wire full duplex or 2-wire half duplex
- DCE and DTE selectable
- Point-to-point and multidrop operations
- RS-232: DB25 female connector
- RS-485: terminal block and RJ11 connections
- Input: 110VAC; except P/N 129218CE 220VAC input
- Weight: 0.9 lbs. • One-year warranty



Now a
European
Version!



Part No.	Description	1	10
117701CE	RS-232-485/422	\$57.95	\$51.95
197931CE	RS-232-485/422	69.95	62.99
122956CE	RS-232-485/422 OPT ISO	119.99	107.99
129218CE	RS-232-485/422 (220 VAC) ...	42.95	36.95

197931CE: port powered (power adapter not included)
Data rate: 100kbps
122956CE: features RS-485SI; optical isolation: 2000V
129218CE: features 220VAC input
Includes: 9VDC @ 300mA power adapter

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Books and Interface Cards

Parallel Port Complete

Lakeview Research Hands-on approach to PCs and their connections to parallel ports. This state-of-the-art book offers many tips on how to get the most out of your parallel port. Enhanced (EPP) and extended capabilities (ECP) types are covered. (343 pages, 1999)



- Windows® 3.1 & Windows® 95
- Selecting cables • PC to PC links
- Size: 7.0" x 10.0" • Weight: 1.4 lbs.

Includes: 3.5" diskette

Part No.	Description	Price
138261CE	Parallel Port Complete	\$32.89

Serial Port Complete

Lakeview Research Provides you with everything you need to design, program, install and troubleshoot the links you set up. (306 pages, 1998)



- Size: 7" x 10"
- Weight: 1.3 lbs.

Includes: 3.5" diskette

Part No.	Description	Price
154771CE	Serial Port Complete	\$39.95

Complete Embedded Ethernet and Internet Book

Lakeview Research Learn about networking with embedded systems. Topics include networking basics, hardware options in building a network, using internet protocol in local and internet communications. (482 pages, 2003)



- Size: 7.0" x 9.0" • Weight: 1.7 lbs.

Part No.	Description	Price
236945CE	IC Design Projects Book	\$44.95

PCI GPIB IEEE-488.2 Board

PCI Bus

- 1 MB/s transfer rate
- 1024 word FIFO buffer
- 7 interrupt lines, shared interrupt capability
- IEEE 488.2 standard interface
- Complete talker/listener/controller
- Transparent interrupt enabling/disabling



Part No.	Cross Ref. No.	1	10
177121CE	PCI-GPIB-1M	\$398.95	\$358.95
73154CE	IEEE-488 1 meter cable	36.49	32.79
115781CE	IEEE-488 2 meter cable	37.95	34.19
115801CE	IEEE-488 4 meter cable	38.95	36.19

Digital Input/Output Board TTL Level

PCI Bus

- Output: 2.5mA @ 0.45V sink, 2.5mA @ 2.4V source
- 24-bit digital I/O
- Three 8-bit ports



Includes: InstaCal: installation & test utilities software

Part No.	Product No.	1	10
197827CE	PCI-DIO24	\$88.95	\$85.95

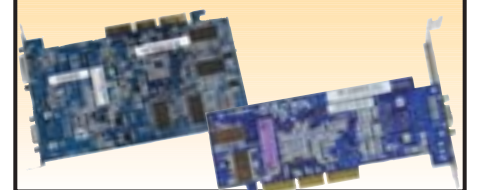
Digital Video Interface Cable

- DVI cable for flat panel LCD monitors and high-end video graphics cards
- Connector: DVI-D single link type
- Length: 6'



Part No.	Description	1	10	100
320346CE	DVI cable	\$13.45	\$12.69	\$11.99

All New Graphics Cards
see page 219



Pocket PC Reference Book

Sequoia Publishing The new Pocket PCRef 13th edition includes troubleshooting tools, wiring diagrams, connectors and pin outs, commands for WinXP and UNIX, CDROM drive configuration data, hard drive specifications, PC hardware, ASCII numbers, CPU processor specifications and much more. (1088 pages, 2004)



Part No.	Description	Size	Price
355231CE	Pocket PCRef	4" x 6"	\$15.15

IBM® 8-Port Ethernet Hub

Although designed to the exacting standards of IBM for use in large corporate networks, its price and easy setup make it perfect for small office or home office use. Compatible with all standard STP, UTP, and FTP cables. Can be cascaded to support larger networks via the MDI (uplink) port.

• Size: 8.7"W x 5.3"D x 1.1"H • Weight: 1.7 lbs.

Part No.	Description	1	10
226149CE	8-port hub	\$44.95	\$39.95

NETGEAR® 4-Port Firewall Router

11Mbps Cable/DSL

This true firewall is broadband capable, and provides you with the utmost in business class security – Denial of Service (DoS) protection and Intrusion Detection using Stateful Packet Inspection (SPI), URL access and content filtering, logging, reporting, and real-time alerts. Up to 253 users can access your broadband connection at the same time.

• Size: 7.4"W x 4.9"D x 1.3"H
• Weight: 1.8 lbs.

Includes: 10' CAT5 cable, power adapter, user guide & CD-ROM software
♻️ Blue Part No. = Limited Quantity Available

Part No.	Description	Price
233331CE	11Mbps cable/DSL firewall router ♻️	\$60.35

AUI/10BaseT Transceiver

Provides connectivity with work stations equipped with AUI ports to 10BaseT ethernet local area network. Switch selectable SQE (signal quality error)/"Heartbeat Test" to detect collision.

• IEEE 802.3 10BaseT compliance
• 4 LED indicators for receive, transmission, collision and link
• AUI 15-pin RJ45 connector
• Size: 2.3"L x 1.7"W x 0.8"H • Weight: 0.2 lbs.

Part No.	Description	1	10
215917CE	Ethernet transceiver	\$20.39	\$18.55

External 3-Port USB Thumbhub

Expand your single USB port to a stacked 3-port thumbhub.

• USB Revision 1.1 compliant
• LED indicators uplink/down port communication, and OCP status
• Supports full speed (12Mbps) and low speed (1.5Mbps) transfer rate
• Self-powered mode
• Compatible with Windows® 98/98SE/2000/ME/MAC OS8.5
• Size: 3.1"L x 0.8"W x 1.2"H

Part No.	Description	1	10
208451CE	3-port thumbhub	\$12.49	\$11.49

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New Sale Lower\$ QtySave

USB Thumb Drives

Thumb drives are compact and fit easily in your pocket or hang around your neck. Portable and lightweight, no external power needed. No drivers necessary for Windows® ME and above.

• 10 year data retention • Size: 2.9"L x 0.7"W x 0.4"H
• Windows® 98/98SE drivers are available at www.Jameco.com

Part No.	Description	1	10
217787CE	128MB	\$49.95	\$44.96
217795CE	512MB	99.99	89.99

SmartBeam™ Infrared Adapter

Provides the simplest and fastest way to interface your PC or laptop with palmtops, organizers, and even printers. Using industry standard IrDA 1.0 technology, it can communicate with other devices that are IrDA up to 115.2kbps. Connect this device to a serial port and share files, printers, and even send email.

Includes: Software & DB9 M-to-DB25 F serial adapter

Part No.	Description	1	10
291821CE	Infrared adapter	\$25.89	\$23.29

USB Complete

Lakeview (3rd Edition) Provides an easy-to-use interface for computer peripherals. The book covers topics such as what USB can do, transfer types, chip choices, what's inside a USB controller, writing firmware, how the host communicates and more. (572 pages, 2005)

• Size: 7.0" x 9.0" • Weight: 1.9 lbs.

Part No.	Description	Price
171900CE	Complete USB Book	\$49.95

Controlling the World with Your PC

Hightext Publishing Make your PC control stepping motors, monitor fluid levels, or switch appliances on and off! Each of the circuits in this book connects directly to the parallel printer port of your PC and comes complete with a circuit diagram and listings for control software written in Pascal, C and BASIC. (257 pages, 1994)

Includes: 3.5" disk

Part No.	Description	Price
116943CE	Controlling the World with Your PC	\$39.89

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Universal USB Flash Card Reader/Writers

• Windows®/Mac compatible
SanDisk ImageMate 12-in-1

• CF type I&II; SD; miniSD; MMC; RS-MMC; MS; MS PRO; MS Duo; MS PRO Duo; SM; xD

SanDisk MobileMate 4-in-1

• MS; MS PRO; MS Duo; MS PRO Duo

Soyo MS-PC-8100 12-in-1

• 3-port hub
• CF type I&II; SD; miniSD*; MMC; miniMMC; MS; MS PRO; MS Duo*; MS PRO Duo*; SM; MD

Zynet CR-T11-U29 11-in-1

• CF type I&II; MD; SM; MS; MS PRO; MS Duo; MS PRO Duo*; SD; MMC; RS MMC*; MiniSD

MediaGear MGTR-600 12-in-4

• CF type I&II; MD; SM; xD; MS; MS PRO; MS PRO Duo; MS Select; SD; miniSD; MMC

MediaGear MGTR-300 8-in-4

• CF type I&II; MD; MS; MS PRO; SM; SD; MMC

I-Rocks IR-5300 12-in-1

• Windows compatible only
• CF type I&II; MD; SM; MS; MS PRO; MS Duo*; MS PRO Duo*; SD; miniSD*; MMC; miniMMC

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USB Flash Drives

Kingston Data Traveler

• 64MB - 1GB

LexarMedia Jump Drive

• 128MB - 512MB

Memorex Travel Drive

• 512MB - 1GB

M-Systems DiskOnKey

• 512MB

SanDisk Cruiser

• 128MB - 2GB

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Why Carry An Expensive PDA?

Many of us lose time and productivity switching from system to system. While toting a packed 10 lb. laptop case around is not always desirable, a smaller PDA doesn't often suffice the need for a traditional PC.

In today's market, USB flash drives can provide the smallest and most effective solution. Using existing PC software, you can quickly backup favorite web pages, desktop documents and the dreaded email, contacts or tasks. Simply go to another computer and restore the files to produce an almost identical system. When you're done, backup again and restore to the first system. Not only will you be more efficient at both systems, you'll be backed up too!

Practical Practices
Money Saving Tips for the Engineer



Wall Mount Patch Panel Brackets*

When minimal space is required, APW's heavy-duty 14 gauge steel wall mount patch panel brackets are a great alternative to full size racks. Designed for 19"

EIA equipment, the brackets' hinged design allows convenient wall mounting of patch panels and small equipment while saving valuable floor space. Select from a variety of sizes to best suit your needs.

- Available in 4 heights (1U, 2U, 3U, 4U), 1 width (19.0"), and 4 depths (4", 6", 8", and 12")
- Universal inserts provide the option to use either 10-32 or 12-24 mounting screws



Part No.	Product No.	External Height	Ext./Overall Depth	1	5
350232CE	WPB190106M	1.75", 1U	6.0"	\$19.65	\$18.65
350235CE	WPB190304M	3.50", 2U	4.0"	24.89	23.65
350238CE	WPB190306M	3.50", 2U	6.0"	25.45	24.15
350241CE	WPB190308M	3.50", 2U	8.0"	25.59	24.29
350244CE	WPB190312M	3.50", 2U	12.0"	27.55	26.15
350247CE	WPB190504M	5.25", 3U	4.0"	27.29	25.95
350250CE	WPB190506M	5.25", 3U	6.0"	28.35	26.95
350253CE	WPB190508M	5.25", 3U	8.0"	28.65	27.19
350256CE	WPB190512M	5.25", 3U	12.0"	30.75	29.19
350259CE	WPB190704M	7.00", 4U	4.0"	29.95	28.45
350262CE	WPB190706M	7.00", 4U	6.0"	30.99	29.45
350265CE	WPB190708M	7.00", 4U	8.0"	31.25	29.69
350268CE	WPB190712M	7.00", 4U	12.0"	33.69	32.05



Modular Networking Frames*

APW's modular networking frames offer an economical solution to your rack-mount storage needs at a fraction of the cost of a fully enclosed cabinet. Designed with APW's renowned quality and stability, these racks are ideal for mounting electric test equipment, patch panels, Datacom and telecom equipment, and other cabling and rack-mount peripherals.

- Heavy-duty aluminum extruded upright channels, and top & base angles are packaged in an easily assembled unit
- 12-24 tapped 19" EIA mounting holes
- Overall width: 20.18"
- UL listed
- Offered in 47" and 84" heights only

Part No.	Product No.	Vertical Opening	Rack Units	1	5
350190CE	MNFT1942DM	42.00"	24U	\$137.95	\$131.05
350193CE	MNFT1978DM	78.75"	45U	171.95	163.39



*To minimize shipping costs, all APW products ship direct from the manufacturer. Additionally, Jameco can offer the special shipping rate of 10% of total APW product sales for all APW products.



Pioneer Quicksilver Rack Mount Enclosure Kits*

Just plug it in and load it up! It's that easy with the Pioneer Quicksilver, the industry's first enclosure clustering solution. Quicksilver provides easy installation and reconfiguration of multiple 19" rack mount equipment as well as hubs, concentrators, switches, and other hardware, all within one enclosure. Available in 3 heights – 25U, 40U, and 45U. Use one simple easy-to-order item number to order your fully pre-configured enclosure system. All kits include base with leveler feet, top panel with exhaust fans and cable access (Lexan front door and vented rear door with handles and key locks), 2 pairs of 10-32 tapped 19" cable management mounting rails (front rails include cable management rings), over head interior light, six outlet power strip, one fixed shelf, document storage pocket, and mounting hardware.

- Load capacity up to 1,500 lbs. or 2,000 lbs. when ganged together
- Easy access from the front, rear, and sides
- Fully welded steel construction
- Compatible with all standard APW Pioneer options and accessories



Initial Unit



Add-on Unit

Initial Unit

Part Number	Product Number	Vertical Panel Opening	Overall Height	Rack Units	Overall Depth	Side Panels	1	5
350049CE	PDC1904330KITM	43.75"	52.50"	25U	34.65"	Vented	\$2,073.19	\$1,969.53
350052CE	PDC1907030KITM	70.00"	78.75"	40U	34.65"	Vented	2,183.39	2,074.25
350055CE	PDC1907830KITM	78.75"	87.50"	45U	34.65"	Vented	2,281.05	2,166.99

Add-On Unit

Part Number	Product Number	Vertical Panel Opening	Overall Height	Rack Units	Overall Depth	Side Panels	1	5
350058CE	PDC1904330KITNSM	43.75"	52.50"	25U	34.65"	None	\$1,734.15	\$1,647.45
350061CE	PDC1907030KITNSM	70.00"	78.75"	40U	34.65"	None	1,811.75	1,721.15
350064CE	PDC1907830KITNSM	78.75"	87.50"	45U	34/65"	None	1,873.69	1,780.05



Pioneer Pre-Configured Rack Mount Enclosures*

APW's series of Pioneer Datacom Kits enables you to order pre-configured enclosures with one easy-to-order item number. Available in four different kit combinations to best suit your needs, each series offers an initial unit and a corresponding add-on unit for multi-bay configurations. Pioneer Datacom kits provide 42U of vertical 19" rackmount space and come in depths of 36" and 42". The kits include a base with leveler feet, top panels that include cable access, doors with handles and key locks, clip nuts, cage nuts, and mounting screws.

- Four different kits to meet your requirements – all with two pairs of 0.375" square hole adjustable mounting rails
- 24" wide footprint
- Fully welded steel construction
- Load capacity of up to 1,500 lbs. or 2,000 lbs. when ganged together
- Multi-vendor server compatibility
- Easy access to equipment from front, rear, and sides
- Compatible with all standard APW Pioneer options and accessories



Monitor Not Included

Initial Unit kits

Part No.	Product No.	Frame Size (D")	Top Panel	Front Door	Rear Door	Side Panels	1	5
350001CE	PK124MS7436	36	Perforated	Lexan	Perforated	Solid	\$1,515.25	\$1,439.49
350004CE	PK124MS7442	42	Perforated	Lexan	Perforated	Solid	2,095.25	1,990.49
350007CE	PK224MS7436	36	Fan	Lexan	Perforated	Solid	1,799.99	1,710.25
350010CE	PK224MS7442	42	Fan	Lexan	Perforated	Solid	3,433.25	2,311.59
350013CE	PK324MS7436	36	Perforated	Perforated	Perforated	Solid	1,831.89	1,740.29
350016CE	PK242MS7442	42	Perforated	Perforated	Perforated	Solid	1,896.79	1,801.95
350019CE	PK424MS7436	36	Perforated	Perforated	Perforated	Perforated	1,871.79	1,778.19
350022CE	PK424MS7442	42	Perforated	Perforated	Perforated	Perforated	1,918.75	1,822.79

Add-On Units (no side panels)

Part No.	Product No.	Frame Size (D")	Top Panel	Front Door	Rear Door	Side Panels	1	5
350025CE	PA124MS7436	36	Perforated	Lexan	Perforated	None	\$1,644.45	\$1,562.25
350028CE	PA124MS7442	42	Perforated	Lexan	Perforated	None	1,686.35	1,602.05
350031CE	PA224MS7436	36	Fan	Lexan	Perforated	None	1,982.55	1,883.45
350034CE	PA224MS7442	42	Fan	Lexan	Perforated	None	2,024.35	1,923.15
350037CE	PA324MS7436	36	Perforated	Perforated	Perforated	None	1,445.99	1,373.69
350040CE	PA324MS7442	42	Perforated	Perforated	Perforated	None	1,487.89	1,413.49
350043CE	PA424MS7436	36	Perforated	Perforated	Perforated	None	1,445.99	1,373.69
350046CE	PA424MS7442	42	Perforated	Perforated	Perforated	None	1,487.89	1,413.49



Mini-Max Wall Mount Enclosures*

APW's Mini-Max Wall Mount Enclosures are the perfect storage solution for today's demanding, space-constrained applications. Convenient and flexible, these 19" EIA rack-mount enclosures allow you to manage and secure critical network wiring, hubs, concentrators, routers, patch panels, and audio/video equipment in a minimum amount of space. Offered in a variety of sizes with door and ventilation options, Mini-Max delivers the perfect combination of form and functionality for virtually any application.

- Available in 3 heights (12U, 20U, and 26U), 1 width (21.50", 19" rack-mount) and 2 depths (14" and 20")
- Dual-tapped and field-reversible 10-32 and 12-24 mounting rails (1 pair per cabinet)
- Vented



Part Number	Product Number	Door Type	Vertical Panel Opening	Overall Height	Usable Depth	Overall Depth	1	5
350196CE	WCF192114PLM	Plexiglas	21.00"	23.13"	14.00"	20.16"	\$505.69	\$480.39
350199CE	WCF192114SLM	Solid metal	21.00"	23.13"	14.00"	20.16"	451.49	428.95
350202CE	WCF192120PLM	Plexiglas	21.00"	23.13"	20.00"	26.16"	556.25	528.39
350205CE	WCF193520PLM	Plexiglas	35.00"	37.13"	20.00"	26.16"	690.05	655.55
350208CE	WCF194520PLM	Plexiglas	45.50"	48.13"	20.00"	26.16"	824.29	783.05



Swing Out™ Wall Mount Rack for Mini-Max Wall Mount Enclosures*

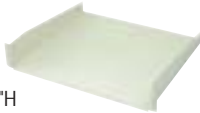
Convenient and flexible Swing Out™ racks come with a variety of standard features, including integrated strain relief and cable management; quick release hinges that allow the rack to swing open from either left or right; and exclusive 3" deep rack style rails tapped 12-24 on the front and rear for 19" EIA rack-mount equipment.

- Overall height: 18.0"
- External width: 20.75"
- Color: black

Part No.	Product No.	Vertical Panel Opening	Rack Units	External Height	1	5
350223CE	SO2118M	21.00"	12U	23.92"	\$180.25	\$171.25
350226CE	SO3518M	35.00"	20U	37.92"	199.75	189.75
350229CE	SO4318M	43.75"	25U	46.67"	213.89	203.19

Cabinet Mounting Plate for 19" Cabinet

- Use as industrial chassis mounting plate for servers, PCs or patch panels
- Made of industrial grade steel and aluminum
- Size: 19.0"W x 15.8"D x 3.5"H
- Color: beige



Part No.	Description	1	10
149500CE	Cabinet mount plate	\$39.95	\$35.95

19" Rack Mount Drawer with Keyboard and Trackball

- Occupies a single unit (1U) rack space
- PS/2 connector for keyboard and trackball
- Color: gray
- Weight: 18 lbs.
- Size: 19"W x 13"D x 2.8"H



Includes: Wrist pads, module, PS/2 to 5-pin DIN and PS/2 to 9-pin adapters, and software

Part No.	Description	1	10
220644CE	Rack mount KB drawer	\$249.99	\$234.99



Universal Wall Mounting Rail Kits for Mini-Max Wall Mount Enclosures*

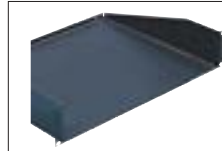
- Comes in pairs
- Color: black

Part No.	Product No.	VPS	Rack Units	1	5
350214CE	WCRK21M	21.00"	12U	\$37.05	\$35.15
350217CE	WCRK35M	35.00"	20U	45.55	43.25
350220CE	WCRK45M	45.50"	26U	55.09	52.35



Cantilevered Shelves*

- Front mount only**
- 19" rack mountable
 - 50 lb. capacity
 - PS: 3.50"
 - 2U rack unit
 - Color: black



Part No.	Product No.	Type	Depth	1	5
350079CE	CS1912S	Solid	12.50"	\$42.09	\$39.99
350082CE	CS1914S	Solid	14.50"	48.25	45.85
350085CE	CS1919S	Solid	19.00"	56.45	53.65
350088CE	CS1912V	Vented	12.50"	53.35	50.69
350091CE	CS1914V	Vented	14.40"	60.55	57.55
350094CE	CS1919V	Vented	19.00"	64.65	61.45

19" Rack Mount Enclosures

Perfect for equipment setup in home, studio or laboratory.

- Ventilation holes on all sides
- Front and back panels are steel w/ aluminum, pre-punched face plates
- Front panel: 0.12" thick
- Black front panel
- Top, bottom, sides durable 0.035" steel
- All enclosures have handles except P/N 132812CE



Includes: Mounting screws

Part No.	Dimensions (In.)			Weight (lbs.)	Pricing	
	H1	H2	D		1	10
132812CE	1.73	1.25	9.75	6.2	\$39.95	\$35.99
132821CE	3.46	3.0	9.75	7.9	47.95	43.49
132839CE	3.46	2.88	11.75	9.1	53.95	48.59
132847CE	5.22	4.75	11.75	10.6	63.95	55.99
132855CE	5.22	4.75	13.50	11.8	73.95	66.95
132863CE	8.56	8.0	13.50	15.4	94.95	84.95

19" Rack Mount CAT 5 Patch Panels

Our CAT 5 patch panels feature 110D punch blocks that are compatible with KRONE or 110D tool. UL and CUL listed and certified, CAT 5 certified and can be used with T568 A/B installations. Blocks are color coded for T568 color-coding, and easy wire management.



Part No.	Description	1	10
208768CE	12-port patch panel	\$28.99	\$27.55
208784CE	24-port patch panel	42.75	39.95

Relay Rack & Rack Panels

Rack:

- Black powder coat finish
- 10-32 threaded holes
- Used with 19" wide panels
- 16 gauge CRS base
- 1/8" aluminum side rails
- Size (at base): 19.8"W x 15.3"D x 84"H
- Dimensional weight: 70 lbs.

19" Wide Panel:

- 10-gauge black steel

Rack screw:

- 10/32 screw; 5/8" phillips head (50 ea.)

133751CE

229489CE

Part No.	Description	Height	1	10
133751CE	Relay rack	84"	\$159.95	\$144.95
229489CE	Rack panel (2U)	3.50"	10.95	10.35
229500CE	Rack panel (4U)	7.00"	14.55	13.55
229446CE	Rack screw (50 ea.)	—	8.25	7.45

30-Day Money-Back Guarantee

If you're not completely satisfied with your purchase, simply return the product within 30 days for a refund or exchange. Details on page 284.

*To minimize shipping costs, all APW products ship direct from the manufacturer. Additionally, Jameco offers a special shipping rate for all APW products that's equal to 10% of the total APW product sales price.

Looking For Other APW Products?

Give us a call for access to APW's PFT Datacom, Stantron Audio/Video, EMI Security and Vero Electronics products.



Color Code Legend

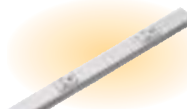
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Standard Vertical Mount Power Strips*

- Voltage rating: 125V
- Cord length: 15 feet

Part No.	Product No.	Amps	No. of Receptacles	Plug Type	Dimensions (L"xD"xW")	Breaker	1	5
350133CE	EPS4015	15	6	5-15P Standard	40 x 0.8 x 1.3	No	\$116.85	\$110.99
350136CE	EPS6015	15	10	5-15P Standard	60 x 0.8 x 1.3	No	\$121.85	\$115.75
350139CE	EPS6015T	15	10	L5-15P Twistlock	60 x 1.2 x 2.0	No	\$135.95	\$129.15
350142CE	EPS6020	20	12	5-20P	60 x 1.2 x 2.0	No	\$136.95	\$130.15
350145CE	EPS6020T	20	12	L5-20P Twistlock	60 x 1.2 x 2.0	No	\$149.05	\$141.59
350148CE	EPS4015I	15	6	5-15P Standard	40 x 0.8 x 1.3	No	\$118.85	\$112.89
350151CE	EPS6015I	15	10	5-15P Standard	60 x 0.8 x 1.3	No	\$123.89	\$117.69
350154CE	EPS6615	15	20	5-15P Standard	66 x 1.25 x 1.75	Yes	\$151.05	\$143.49
350157CE	EPS6615T	15	20	L5-15P Twistlock	66 x 1.25 x 1.75	Yes	\$161.15	\$153.09
350160CE	EPS6620	20	20	5-20P Standard	66 x 1.25 x 1.75	Yes	\$201.45	\$191.35
350163CE	EPS6620T	20	20	L5-20P Twistlock	66 x 1.25 x 1.75	Yes	\$211.49	\$200.89



Standard 19" Rackmount Power Strips*

- Voltage rating: 125V
- Cord length: 15 feet

Part No.	Product No.	Amps	No. of Receptacles	Plug Type	Dimensions (L"xD"xW")	Breaker	1	5
350166CE	EPS1620	20	6	5-20P Standard	1.75 x 5 x 19	No	\$115.85	\$110.05
350169CE	EPS1620T	20	6	L5-20P Twistlock	1.75 x 5 x 19	No	\$130.95	\$124.39
350172CE	EPS20RM	20	6	5-20P Standard	1.75 x 5 x 19	Yes	\$120.85	\$114.79
350175CE	EPS20RMS	20	6	5-20P Standard	1.75 x 5 x 19	Yes	\$166.15	\$157.85
350178CE	EPS20RMT	20	6	L5-20P Twistlock	1.75 x 5 x 19	Yes	\$135.95	\$129.15
350181CE	EPS15RXS	15	10	5-20P Standard	1.75 x 5 x 19	Yes	\$159.15	\$151.15
350184CE	EPS15RMS	15	6	5-20P Standard	1.75 x 5 x 19	Yes	\$114.79	\$109.05
350187CE	EPS15RDS	15	8	5-20P Standard	1.75 x 5 x 19	Yes	\$173.25	\$164.55



Full Depth Sliding and Fixed Shelves*

4-point mounting

- 19" rack mountable
- Black

Fixed Shelves

Part No.	Product No.	Description	Type	Depth	1	5
350097CE	ES1919	Medium duty, 100 lbs. capacity	Vented	19.25"	\$53.55	\$50.89
350100CE	ES1924	Medium duty, 100 lbs. capacity	Vented	24.00"	58.79	55.85
350103CE	ES1928	Medium duty, 100 lbs. capacity	Vented	28.00"	64.05	60.85
350106CE	HDES1919	Heavy duty, 400 lbs. capacity	Vented	19.25"	99.75	94.75
350109CE	HDES1924	Heavy duty, 400 lbs. capacity	Vented	24.00"	125.99	119.69
350112CE	HDES1928	Heavy duty, 400 lbs. capacity	Vented	28.00"	141.75	134.65



Roll-Out Shelves

Part No.	Product No.	Description	Type	Depth	1	5
350115CE	SS1919	Medium duty, 75 lbs. capacity	Vented	19.25"	\$141.75	\$134.65
350118CE	SS1924	Medium duty, 75 lbs. capacity	Vented	24.00"	157.49	149.59
350121CE	SS1928	Medium duty, 75 lbs. capacity	Vented	28.00"	188.95	179.55
350124CE	HDSS1919	Heavy duty, 150 lbs. capacity	Vented	19.25"	157.49	149.59
350127CE	HDSS1924	Heavy duty, 150 lbs. capacity	Vented	24.00"	173.25	164.55
350130CE	HDSS1928	Heavy duty, 150 lbs. capacity	Vented	28.00"	206.85	196.49

Rack Mountable Exhaust Fan

Part No.	Product No.	Voltage	CFM	Size	1	5
350211CE	WCF110	115V	110	6.77"Dia x 1.5"D	\$102.89	\$97.75



Floor Attachments and Casters*

Part No.	Product No.	Description	1	5
350067CE	ANCHORKT	Anchor kit for vertical rack mount enclosures, set of 4, black	\$38.85	\$36.89
350070CE	ANTIPTKM	Anti-tip plate for vertical rack mount enclosures, black	44.09	41.89
350073CE	CST1M	Swivel caster, black, supports 270 lbs.	13.65	12.99
350076CE	CST1KT	Swivel caster kit, set of 4, black, supports 1080 lbs.	52.49	49.89



*To minimize shipping costs, all APW products ship direct from the manufacturer. Additionally, Jameco offers a special shipping rate for all APW products that's equal to 10% of the total APW product sales price.

Category 5e Network Cables

- UTP
- 8P8C
- 4 pair
- 24 AWG (7 x 43) stranded
- "Snagless" boot
- Color coded for easy wire tracing
- High-flexibility
- Achieve optimum system performance



Category 5e (350MHz)

Part No.	Length	Color	1	10	100
168292CE	3 ft.	Gray	\$1.79	\$1.49	\$1.39
168305CE	7 ft.	Gray	2.99	2.59	2.39
168313CE	15 ft.	Gray	5.29	4.39	3.99
168321CE	25 ft.	Gray	7.99	6.79	6.39
201777CE	3 ft.	Red	1.79	1.49	1.39
201785CE	7 ft.	Red	2.99	2.59	2.39
201793CE	15 ft.	Red	6.95	5.95	4.45
201806CE	25 ft.	Red	7.99	6.79	6.39
201697CE	3 ft.	Black	1.79	1.49	1.39
201700CE	7 ft.	Black	2.99	2.59	2.39
201718CE	15 ft.	Black	5.29	4.39	3.99
201726CE	25 ft.	Black	7.99	6.79	6.39
201734CE	3 ft.	Blue	1.79	1.49	1.39
201742CE	7 ft.	Blue	2.99	2.59	2.39
201751CE	15 ft.	Blue	5.29	4.39	3.99
201769CE	25 ft.	Blue	7.99	6.79	6.39
201814CE	3 ft.	Yellow	1.79	1.49	1.39
201822CE	7 ft.	Yellow	2.99	2.59	2.39
201831CE	15 ft.	Yellow	5.29	4.39	3.39
201849CE	25 ft.	Yellow	7.99	6.79	6.39

Category 5 (100MHz)

Part No.	Length	Color	1	10	100
281261CE	7 ft.	Gray	\$2.49	\$2.39	\$2.25
281455CE	25 ft.	Gray	4.35	4.15	3.95
277641CE	6 ft.	Red	2.49	2.25	1.99
277659CE	12 ft.	Black	2.99	2.69	2.45
203051CE	10 ft.	Blue	2.75	2.15	1.59
277667CE	12 ft.	Yellow	2.99	2.69	2.45

Be a Star, Use a Star!

Sometimes it is necessary to use more than one surge protector at a workstation.

My first impulse when stringing them together was to daisy-chain them; but was that the right approach?

Nowadays, I prefer to keep my power lead lengths to a minimum by plugging all strips into the wall or a single strip. The shorter path to the power source is less noisy electrically. Plus, the unit plugging into the wall doesn't carry the entire load.

Use this star configuration when you're connecting your power. If you're lucky, you'll never know the benefit!



Practical Practices
Money Saving Tips for the Engineer



isobar®

Surge Protectors



Isobar Premium 19" Rack Mount Surge Protector

Part No.	Product No.	Joules	Description	Wt. (lbs.)	1	10
139686CE	IBAR12RM	750	12 outlet, 2 isolated filters	4.7 ...	\$119.95	\$107.99

Isobar Premium Surge Protectors

18981CE	ISOBAR 4	2200	4 outlet, 2 isolated filters	2.4	\$49.95	\$44.95
74544CE	ISOBAR 6	2350	6 outlet, 3 isolated filters	2.7	\$54.95	\$53.22

Isobar Ultra Premium Surge Protector

19001CE	ISOBAR 8U	2350	8 outlet, 4 isolated filters	3.5	\$69.95	\$63.74
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- Up to \$50,000 Ultimate Lifetime Insurance covers Isobar and connected equipment against surge damage for life!
- Diagnostic indicators on Ultra versions alert you to improper outlet wiring, loss of AC power, and damage to protection circuitry
- 4 & 6-outlet protectors: 6' cord; 8 and 12-outlet protectors: 12' cord
- UL 1449 and 1283 listed • Lifetime warranty

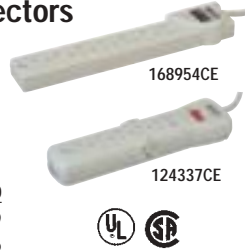


Standard Surge Protectors

Economical and effective spike and noise suppression with diagnostic LEDs.

- 168954CE:** • \$5,000 Ultimate Lifetime Insurance
- Up to 27,000 amp spikes • Weight: 1.2 lbs.
- 124337CE:** • \$35,000 Ultimate Lifetime Insurance
- Up to 42,000 amp spikes • Weight: 1.6 lbs.

Part No.	Product No.	Joules	1	10
168954CE	Striker 7	480	\$8.95	\$8.49
124337CE	Super 7	1402	\$17.95	\$16.26



6-Outlet Surge Protector

- Standard 6-outlet surge suppressor
- Heavy-duty power cord (14AWG x 3)
- RESET/OFF switch with built-in 15A circuit breaker • Clamping voltage: 400V
- Max. surge dissip.: 900 joules • Max. surge volt.: 6500V • Max. spike cur.: 4500A

Part No.	Description	Weight (lbs.)	1	10	100
216485CE	Surge suppressor	0.9	\$6.95	\$6.25	\$5.59



RCA Integrated Wall Plate Surge Protectors

- \$5,000 surge equipment guarantee • Safe-operation indicator lights
- 2 outlets • Noise-filter • UL/CUL approved

235002CE: Satellite/Cable TV protection

- Cable ready • 670 joules
- Includes:** 6-foot coaxial cable

234991CE: Modem/Phone/Fax protection

- Internet ready • 410 joules
- Includes:** 6-foot phone line cord



Part No.	Product No.	Size (WxDxH)	Weight (lbs.)	1	6	12
235002CE	SPC300	6.9"x1.0"x10.8"	0.7	\$5.95	\$5.45	\$4.95
234991CE	SPT300	6.9"x1.0"x10.8"	0.7	\$5.95	\$5.45	\$4.95

SL WABER Compact Surge Protector for Notebook Computers

- Single 3-prong receptacle outlet with telephone modem protection
- 3-prong wall mount type • 210 joule rating
- Surge LED indicator • RFI noise blocker

Includes: 4' RJ11 cord

Part No.	Description	Size	1	10	25
206279CE	Outlet protector	2.3"W x 1.3"D x 3.3"H	\$6.95	\$6.25	\$5.59



Power-Strip-Saver Single Outlet and "Y" Double Outlet

Get full use of your power strips and UPS outlets with our high quality power strip outlet saver.

You can use all the outlets on your surge suppressors, UPS, and outlet strips.

Just plug a bulky power adapter into this cable and free up your other outlets.

- Length: 1 ft. • Cord type: SVT



Before After "Y" Strip Saver
4 Outlets Blocked Every Outlet is Usable For extra adapters

Part No.	Description	1	10	100
199777CE	AC power cord (black)	\$1.69	\$1.55	\$1.39
208338CE	AC power cord (beige)	1.69	1.45	1.09
208346CE	"Y" power-strip-saver	2.89	2.75	2.59

Battery-Backed UPS System

- Protects your PC, fax/modem and all peripherals against all types of power problems • Up to 45 minutes runtime
- Up to \$25,000 Ultimate Lifetime Insurance for connected equipment
- 6-outlets, RJ11 for fax/modem protection • Weight: 16.0 lbs.
- Automatic system shutdown with free PowerAlert software for 500VA and 700VA



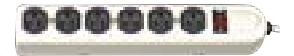
Part No.	Product No.	Description	1	10
185130CE	IO500	500VA, 6 outlets	\$120.99	\$112.89



6-Outlet Surge Protector

NEW

- Metal • 3-prong, 4' power cord
- Max. spike current: 4500 amps, 50 joules
- Size: 12.3"L x 2.4"W x 1.3"H • Weight: 1.5 lbs.



Part No.	Description	1	10	100
20175CE	Metal power strip	\$9.85	\$8.85	\$7.85

Index of Electronics-Industry Books

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We're Listening to What You Need

Let us know how we can better serve your electronics needs.
Please send your requests to NewProducts@Jameco.com.

14" Color CCTV Monitor

- NTSC/PAL switchable
- Operating frequency: EIA - 15750Hz/60Hz; CCIR: 15625Hz/60Hz
- Input voltage: 100 - 240VAC @ 50/60Hz
- Input signal: CVBS - 1Vp-p (typical); Y/C separation - 1Vp-p
- Input impedance: hi/lo impedance (switchable)
- Video in/out channel (BNC): 2 BNC connectors (CVBS in/out); 2 4-pin mini DIN (YC in / YC out)
- Audio in/out channel: 2 inputs / 2 outputs
- Front panel control: power on/off; contrast, brightness, color, tint, sharpness, volume (AV / YC) switches
- CRT dot pitch: 0.63mm
- CRT: 14" diagonal
- Resolution: >420 lines
- Power consumption: 70W
- Size: 13.8"W x 14.4"D x 12.6"H
- Weight: 31.9 lbs.



Part No.	Mfr. Part No.	1	10
320119CE	15-MC14A	\$277.39	\$249.65



High Resolution Security Monitors

Speco solutions for your security monitoring needs. Both have metal cabinets, front controls, and are UL listed.

541000CE:

- 12" B/W monitor
- 800 line resolution
- Video input/output looping; no audio

NEW



541000CE

541018CE:

- 17" color monitor
- 520 line NTSC/625 line PAL resolution
- Auto detect system
- 2 BNC input/output
- 1 RCA input/output



541018CE

Part No.	Product No.	1	5
541000CE	VM-1201B	\$141.55	\$127.39
541018CE	VM-1705C	\$48.09	\$493.26

◆ These products ship from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

Mini Enclosed Color NTSC Camera

- 1/4" CCD Sensor
- 350 horizontal TV lines
- 1 lux/F2.0
- Electronic shutter: up to 1/120,000 sec.
- NTSC system w/ 512(H) x 492(V)
- Scanning system: 2:1 interlace
- Signal to noise ratio: 48dB
- Lens: 3.7mm/F2.0
- Video output: 1Vp-p, 75Ω • FOV: 92°
- Size: (enclosure) 1.3"L x 1.1"W x 0.9"D
- Weight: 0.3 lbs.
- Two-year warranty



Requires: 9VDC - 12VDC @ 500mA power supply (recommend P/N 100853CE, pg 198)

Includes: BNC/Power cable and mounting hardware

Part No.	Description	1	10
215423CE	Mini enclosed camera	\$129.95	\$119.95

Black & White CCD Camera with 6" Monitor

Camera: EIA Format

- 512(H) x 492(V)
- 1/3" CCD image sensor
- 380 TV line res.
- 6 IR LED light for view in the dark application
- 15.734kHz horizontal synch. frequency
- 2:1 interlace scanning system
- 1/100,000 second electronic shutter
- 3.6mm lens with F2.0
- S/N ratio: 48dB
- Video output: 1Vp-p, 75Ω
- Audio output: 2Vp-p, 50Ω maximum • 0 lux at 2M
- BNC connector for video & RCA connector for audio
- Power supply: 12-15V @ 130mA • FOV: 92°
- Size: 2.2"W x 2.8"D x 2.1"H



Includes: Camera bracket

Monitor: EIA Format

- 6" 2-channel flat screen monochrome monitor
- Vertical hold, brightness and contrast adjustment knobs at rear of monitor
- Size: 6.7"W x 7.2"D x 5.2"H • Weight: 7.7 lbs.

Includes: 20M audio/video cable, manual and 15V @ 1A center positive power supply

Part No.	Description	1	10
170616CE	Camera w/ monitor	\$169.95	\$149.95

Black and White Camera with 8mm Lens

- 1/3" CCD image sensor
- Horizontal res: 420TV lines
- Min. illumination: 0.1 lux
- Horizontal freq.: 15.734kHz
- 510(H) x 492(V) EIA signal format
- Vertical freq.: 60Hz
- Clock freq.: 19.0699MHz
- S/N ratio: 48dB
- Scanning system: 2:1 interlace
- Electronic shutter: 1/100,000 sec.
- Auto iris lens: DC drive / AES / video drive
- Video output: 1Vp-p, 75Ω
- Audio output: 2Vp-p max., 50Ω
- Backlight compensation and auto-gain control selectable
- Power requirements: 12VDC@100mA; 24VAC
- Size: 4.5"L x 2.0"W x 2.0"H • Weight: 0.8 lbs.



Part No.	Description	1	10
245041CE	Black & white CCD camera	\$99.95	\$89.95

Night Vision Infrared Lighted Camera

EIA Format

- Adjustable camera lens
- Auto iris controlled
- Built-in voltage regulator
- Horizontal synch. frequency: 15.734kHz
- 6 infrared LEDs for night vision
- Scanning system: 2:1 interlace
- Video output: 1Vp-p; 75Ω • Lens: 3.6mm
- Audio output: 2Vp-p max. • 380 TV line resolution
- FOV: 92° • 0.1 lux with F2.0
- Matching conn.: RG59 BNC (P/N 71271CE, pg 131)
- Size: 2.9"L x 2.0"W x 2.0"H • Weight: 1.2 lbs.



Includes: 12VDC @ 500mA power supply and wall mounting bracket

Part No.	Description	1	10
150404CE	Infrared lighted camera	\$119.95	\$109.95

Color Camera with 8mm Lens

- 1/3" CCD image sensor
- Horizontal res: 420 lines
- Min. illumination: 0.5 lux
- 510(H) x 492(V) EIA signal format
- Vertical freq.: 60Hz
- S/N ratio: 52dB
- Scanning system: 2:1 interlace
- Electronic shutter: 1/120,000 sec.
- Auto iris lens: DC drive / AES / video drive
- Video output: 1Vp-p, 75Ω
- Audio output: 2Vp-p max., 50Ω
- Backlight, auto-gain, and mirror reverse picture switch selectable
- Auto-tracing white balance
- 2X digital zoom
- Power requirements: 12VDC@150mA
- Size: 5.0"L x 2.0"W x 2.0"H • Weight: 0.8 lbs.



Part No.	Description	1	10
395461CE	Color camera	\$88.99	\$86.89

Color Interline Camera

Water Resistant with Adjustable Mounting Bracket

- EIA format
- 1/3" CMOS image sensor
- EIA format: 512(H) x 492(V)
- 330 horizontal line resolution
- 2:1 scanning interlace system
- 5 lux sensitivity
- Video output: 1V p-p; 75Ω • 6mm lens/F2.0
- S/N ratio: 40dB • FOV: 530
- Electronic shutter: 1/60 - 1/1,200 sec.
- Connectors: 1 standard RCA female jack for video, and in-line 2.1mm power-plug connector for power supply
- Size: 2.6"L x 0.9"Dia.



Includes: Adjustable mounting bracket, instruction sheet and 9V @ 100mA power supply

Part No.	Description	1	10
185017CE	Color camera	\$99.95	\$89.95

SONY Color CCD Camera

Sony Chipset

- 1/4" Sony super HAD CCD sensor
- NTSC system with 510(H) x 492(V)
- Furnished mini lens: 3.6mm
- Minimum illumination: 0.5 lux @ F2.0
- Signal to noise ratio: >48dB
- 330 TV lines
- Supports these functions: auto electronic shutter (AES), auto iris control (AIC), auto gain control (AGC), auto white balance (AWB), back light compensation (BLC) and flicker less (FL)
- Video drive iris control; high/low switchable auto gain control; on/off backlight compensation
- Internal, negative synchronous system
- Video output: 1Vp-p; 75Ω

Requires: 12VDC @ 120mA power supply (recommend P/N 163993CE, pg 198)

Includes: Power/signal cable & mounting hardware

Part No.	Description	1	10
213436CE	Enclosed color camera	\$179.95	\$161.95



WaterProof Tube Style IR Color Camera

NTSC Format

- For indoor and outdoor use
- 1/4" CCD image sensor
- 512(H) x 492(V)
- 420 horizontal line resolution
- 59.94Hz vertical frequency
- Scanning system: 2:1 interlace
- 0 lux w/ 20 IR LEDs
- Internal synchronization
- S/N ratio: >48dB
- Up to 1/100,00 sec. electronic shutter
- Auto white balance and gain control
- 880 ~ 940nm infrared wavelength
- Video output: 1Vp-p, 75Ω
- 4.3mm lens with F1.8
- Size: 2.1"Dia x 3.8"L

Requires: 12VDC @ 160mA power supply (recommend P/N 162996CE, pg 197)

Includes: Mounting hardware

Part No.	Mfr. Part No.	1	10
319901CE	15-CM25WM	\$189.05	\$184.29

2.4GHz Wireless Color Dome Camera

NTSC Format

- 1/4" CCD image sensor
- 512(H) x 492(V)
- 380 horizontal line resolution
- 1 lux with F2.0
- Scanning system: 2:1 interlace
- S/N ratio: 48dB
- 60Hz vertical frequency
- Up to 1/120,000 second electronic shutter
- 3.6mm lens with F2.0 • FOV: 92°
- Video output: 1Vp-p, 75Ω
- Power supply: 12VDC @ 300mA
- Size: 3.4"Dia x 2.3"H

Includes: 12VDC @ 300mA power supply and mounting hardware

Part No.	Mfr. Part No.	1	10
319855CE	15-2400CTD	\$212.25	\$191.15

Mini Dome Color Camera

NTSC Format

- Perfect for ceilings
- 1/4" CCD image sensor
- 512(H) x 492(V)
- 330 horizontal line res.
- S/N ratio: 46dB
- 15.73kHz horizontal synch. frequency
- Scanning system: 2:1 interlace
- Up to 1/96,000 second electronic shutter
- 3.6mm lens with F2.0
- Video output: 1Vp-p, 75Ω
- Power supply: 12VDC @ 160mA (recommend P/N 162996CE, pg 197)
- 2 lux/F2.0 • FOV: 92°
- Size: 3.5"Dia. x 2.3"H

Includes: Mounting hardware

Part No.	Description	1	10
171037CE	Mini-dome camera	\$145.95	\$129.95

Outdoor Cameras

speco technologies

Speco Technologies outdoor security cameras offer night and day monitoring in weatherproof configurations.

- Bullet-style outdoor weatherproof cameras
- Color and black/white
- Resolution: 350-480 lines
- Lenses: 2.9mm-9mm
- IR model ranges: 25-75'



These products ship from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

See Our Complete Speco Outdoor Camera Offering at www.Jameco.com/Prod/SpecoOutdoor

NEW
ON THE WEB

Indoor Cameras

speco technologies

Speco Technologies indoor security cameras offer many unobtrusive configurations.

- Indoor camera styles include: dome, ceiling/wall flush mounted, zoom with optional control, discrete (in wall, PIR housing, or clock)
- Resolution: 350-420 lines
- Zoom: 480 lines
- Lenses: 3.6-3.7; zoom model: 3.6-79.2
- CCD formats: 1/4" or 1/3"



These products ship from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

See Our Complete Speco Indoor Camera Offering at www.Jameco.com/Prod/SpecoIndoor

NEW
ON THE WEB

2.4GHz Wireless Weatherproof Color Camera with PIR

NTSC format

- For indoor and outdoor use
- 1/4" CCD image sensor
- 380 horizontal line resolution
- 3 lux with F2.0; 0.5lux with F1.2
- Video output: 1Vp-p, 75Ω
- Audio output: 2Vp-p max
- Transmitter output power: 10mW
- Output impedance: 50Ω typical
- Pulse counter w/ automatic reset
- Size: 4.2"W x 5.0"D x 4.8"H

Includes: 12VDC @ 500mA power supply and mounting hardware

Part No.	Mfr. Part No.	1	10
319871CE	15-2400CTH	\$236.55	\$212.89



Mini Wireless Color Camera

Now you can place a color video camera with sound almost anywhere! This super-small (1" x 3/4" by 7/8") 1/4 ounce, 3 Lux wireless camera and receiver combo delivers sharp, full-motion video images at 380 lines of resolution. With its 150-foot (unobstructed) range, light weight, and 9-volt battery power, you can now add video capability to a world of hobby applications.

Part No.	Description	1	10
249025CE	Wireless color camera	\$89.95	\$80.95



SONY® Black & White Low-Light Camera

Sony Chipset

- Signal to noise ratio: >48dB
- Requires 12V power source (not included)
- 6" wires with 4-pin Molex-type keyed connector
- EIA system 537(H) x 505(V)
- Temp. tolerance: -5°C to 40°C
- Composite output with 420 line resolution
- Shutter speed: 1/60 - 1/1000
- FOV: 92.6°
- Video output: 1.0Vpp composite video/75Ω
- Size: 1.3"L x 1.3"W x 1.0"H
- One-year warranty

Part No.	Description	1	10	25
150931CE	Camera board	\$71.79	\$64.79	\$58.15
159071CE	8mm lens 38.6'	17.95	17.10	16.25



Black & White Camera with Lens

EIA Format

- 1/3" CCD image sensor
- 510(H) x 492(V)
- Horizontal resolution: >350 lines
- Scanning system: 2:1 interlace
- Sensitivity: 0.7 lux/F2.0
- Video output: 1Vp-p, composite video 75Ω
- Power supply: 12VDC (recommend P/N 162996CE, pg 197)
- Size: 1.3"L x 1.3"W x 1.2"H
- S/N ratio: 46dB
- Power consumption: 110mA
- FOV: 92°
- Electronic shutter: 1/125,000 sec. (linear)

Part No.	Description	1	10
171029CE	Camera board	\$44.95	\$40.45



Color CMOS Camera Board

NTSC Format

- 1/3" image sensor
- 5.0 CMOS lux
- FOV: 92°
- 3.6mm lens/F2.0
- 330 TV lines
- Low power consumption
- Automatic exposure, gain and white balance
- Size: 1.0"L x 0.9"W x 1.1"H

Part No.	Description	1	10
171011CE	Camera board	\$77.65	\$69.89



Free Technical Support

Our knowledgeable Tech Support is ready to answer your questions. Just call us! 1-800-831-4242

4-Channel 2.4GHz Wireless Audio/Video Transmitter System

CCIR, NTSC, PAL, EIA Format

- ISM Band: 2.413 – 2.470GHz
- Four selectable transmitter and receiver channels
- Antenna mode: dipole (omnidirectional)
- Impedance: 50Ω typical
- Video input: 1 Vp-p composite
- Audio input: 2Vp-p max. • Weight: 3.2 lbs.

Includes: Two 9VDC @ 300mA with 1.3mm x 3.5mm center positive plug, and two 2.5mm male to RCA patch cables

Part No.	Description	1	10
265308CE	4-ch. wireless system	\$149.95	\$134.95



2.4GHz Wireless Audio/Video Transmitter

- Frequency range: 2413MHz to 2470MHz
- Impedance: 50Ω
- Output power: 1 watt
- Video input: 1 Vp-p
- Audio input: 2 Vp-p
- Size: 2.4"L x 1.9"W x 1.4"H

Includes: 12VDC @ 1A wall adapter, RCA patch cable, antenna and mounting hardware

179864CE:

- For use with 2.4GHz cameras, transmitters and receivers
- Gain: 3dB; unidirectional

Part No.	Description	1	10
289852CE	Wireless audio/video tran. ...	\$199.95	\$179.95
179864CE	2.4GHz SMA RF antenna	15.15	13.65
179872CE	Wireless extension cable	10.99	9.89



4-Channel 2.4GHz Wireless Audio/Video Receiver and 10mW Transmitter

Make your camera wireless up to 492 feet!

- Transmission range: 492' (150M outdoors); 164' (50M indoors)
- 4-channel switch selectable on transmitter
- Output power (transmitter): 10mW
- Output impedance: 50Ω typical
- Video input: 1Vp-p composite
- Audio input: 2Vp-p max.
- RCA jacks for audio and video connectors

Receiver:

- Non-volatile memory protects system set-up from power loss
- Video loss detection and freeze channel
- Mute and alarm trigger port
- Size: (transmitter) 4.5"L x 3.2"W x 1.0"H
- Size: (receiver) 6.5"L x 5.5"W x 1.4"H
- Weight: 1.8 lbs.

Includes: RCA cable, 12VDC@500mA adapter, RCA to F connector adapter (receiver unit only)

Part No.	Description	1	10
192858CE	4-channel transmitter	\$94.45	\$85.05
192866CE	4-channel receiver	124.95	112.95



4-Channel Digital Video Multiplex Recorder

Record and monitor your security surveillance system with this 4-channel digital video multiplex recorder. Connect 4 cameras to this recorder, attach a monitor for viewing features, and connect your PC through the RS-232 interface to operate the recorder. Attach a RJ-45 cable for network connection, and install 1 or 2 hard disk drives to the recorder.

- TCP/IP with client software web interface
- Conventional VCR back up, remote back-up using TCP/IP, or internal back-up
- RS-232C, RS-485, 4-alarm input, 1 relay output
- Pan, tilt, zoom, and focus camera control
- Plug and play

Video I/F

- 4-channel input, 1Vp-p, 75Ω unbalanced BNC type connectors
- S/N ratio: >48dB • 480 TV lines
- 4 output (BNC/SVHS/VGA type)
- 16.7 million colors

Monitoring Method

- Split screen (full or quad display), zoom, PIP, sequence
- Screen quality: full screen – 720(H) x 480(V) active pixels; ¼ screen – 360(H) x 240(V) active pixels

Recording/Playback Function

- 30 frames/sec. maximum
- JPEG compressed picture
- Quad screen recording or field switcher method
- Real time/time lapse/event record mode
- Search/still track play

Includes: remote control, 12VDC @ 4.16A power supply, manual and software in CD-ROM

Part No.	Mfr. Part No.	1	10
320127CE	15-DVR04SAE-LAN	\$664.05	\$597.65



Single Camera Digital Video Recorder

NTSC/PAL inputs from one camera. Records up to 20 pictures/second at a resolution of 720 x 240 or 360 x 240. Search by date, time, camera, and alarm.

- 40GB HDD using MJPEG compression
- Monitor and VCR outputs
- NTSC real-time display and motion (activity) detection
- Multiple recording modes
- Alarm input and output
- 12VDC power supply included

NEW

Part No.	Product No	1	5
540648CE	DVR-X1 ♣	\$521.65	\$469.49

♣ This product ships from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.



Order Anytime, Day or Night



Our friendly sales department will take your order 24x7x365 by phone, fax, web or email.

DigiVue™ Digital Surveillance System

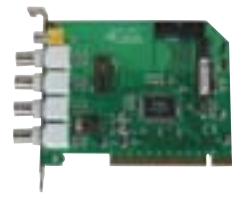
This new high-speed PCI video capture card comes with 4-channel video and 1-channel audio input that provides superb digital images from multiple cameras and remote surveillance. Add up to 4 cards per system controlling up to 16 cameras.

- Input signal: 4 video, 1 audio synchronized mono (with sound card) • Time/date stamp
- Display: 1/4/9/16/full screen
- Display and record: 60 frames per second (per card)
- Record mode: event/continuous/scheduled
- Enhanced MPEG4 format • Size: 4.9"L x 3.6"H
- Color adjust: adjustable light, contrast, hue, saturation
- Resolution: 160 x 120 up to 640 x 240
- Multitask: monitoring, recording, PTZ control, remote, back-up
- Motion detection: 16 zone x multi area for each camera
- Storage: HDD, VDRAM, CD-RW, DAT, ZIP
- Support internet monitoring: client software, explorer, or windows media player

Includes: CD-ROM software and drivers

Minimum system requirements: Pentium® III/ 800MHz, 128 MDRAM, 32M AGP video card or above (recommend Pentium® 4/1.8GHz, 64M AGP video card)

Part No.	Product No.	1	4
262019CE	EDV-XVIEW4	\$237.55	\$225.95



Audio/Video Adapters

CAT 5 UTP

- Converts impedance of video/audio signals to 100Ω for transmission over CAT 5 UTP cable
- Supports both NTSC or PAL video signals
- Built-in impedance matching device and filter for video and audio signal transmission
- Use with existing premises wiring and wall jacks for easy and cost effective installation
- Video transmission distance: 1000' color/ 2000' B/W

210471CE/311124CE: Signal pair: video (BNC), CAT pair 1 (RJ45)
220880CE: Signal pairs: video (BNC), CAT pair 4 (RJ45); audio 1 (RCA); CAT pair 3 (RJ45); audio 2 (RCA), CAT pair 2 (RJ45)

Includes: Mounting hardware

Part No.	Connector Type	1	10
210471CE	BNC/RJ45 w/ cable	\$28.45	\$25.60
311124CE	BNC/RJ45	19.35	18.35
220880CE	BNC/RCA/RJ45	42.95	38.66



Cable Assembly (75Ω RG59/U BNC – BNC)

Part No.	Length	1	10	50	100
262730CE	25'	\$9.95	\$8.95	\$8.05	\$7.25
262748CE	50'	17.05	16.25	15.45	14.69
262764CE	100'	30.39	28.89	27.45	25.99

For additional BNC Cables see pages 103 & 131.



ATEN SVGA Monitor Splitters

Duplicate a video signal from one source to monitors up to 210 feet away.

- Suitable for SVGA, VGA & multisync monitors

176866CE: 2-channel

- 1 HDDB15 male connector from PC to box; 2 HDDB15 female connectors from box to monitors

- Size: 6.6"L x 3.3"W x 1.1"H • Weight: 1.4 lbs.

133866CE: 4-channel

- Slide switch for video signal gain control
- Daisy chainable
- Size: 8.8"L x 6.0"W x 1.9"H • Weight: 3.6 lbs.

Includes: Power adapter and manual

Part No.	Description	1	10
176866CE	2-ch. monitor splitter	\$49.95	\$44.95
133866CE	4-ch. monitor splitter	59.95	53.95

Video RF Modulator w/ S-VHS Input

Designed to convert separate audio and video signals from various video components.

- RF outputs: 3 or 4 channel switch selectable
- RF output impedance: 75Ω
- Video input impedance: 75 or 1kΩ
- Audio input impedance: 13 +/-3kΩ
- TV to antenna insertion loss 50 – 806MHz: -2dB
- Video carrier output level: 69dBuV

Part No.	Mfr. Part No.	Description	Price
319062CE	203-101	Video RF modulator	\$14.95

Audio Video Selectors

319151CE:

- Manual 4x1 audio/video selector with S-VHS inputs and integrated 3/4 channel RF modulator. Designed to convert separate audio and video signals into a single VHF-TV signal viewable on most TV sets

319142CE:

- Auto audio/video selector with S-VHS inputs. Automatically redirects signal to display active signal source. 12VDC @ 200mA power supply included.

Part No.	Mfr. Part No.	Size (WxDxH)	Price
319151CE	200-470	9.4" x 5.0" x 1.9"	\$34.95
319142CE	200-465	9.7" x 5.9" x 2.1"	54.95

SMK RF Modulator

- Output frequency: NTSC Ch. 3/4, switch selectable
- 12VDC RF modulator
- Operating voltage: 12V @ 50mA max.
- Video modulation: 1.0V p-p
- RF output impedance: 75Ω (F type connector)
- Audio FM deviation: 1.4V p-p
- PC connections: solder tab connectors
- Size: 1.7"L x 1.7"W x 0.7"H
- Manufacturer No.: WMN2144-01

Part No.	Description	1	5	10
141639CE	RF modulator	\$2.49	\$2.29	\$2.09

Video Distribution Center

Input a composite signal from a video camera or other source and distribute to four monitors.

- One input to four output channels
- Video input level: 0.8 - 1.2Vp-p, 75Ω
- Video output level: 1Vp-p (standard), 75Ω
- Video bandwidth: 10Hz - 10MHz
- Red power on/off LED
- Dual voltage 12VDC/ 24VAC
- Size: 5.5"L x 3.0"W x 1.0"H

Includes: 12VDC power supply

Part No.	Product No.	1	5
540971CE	VID-DIST	\$64.75	\$58.24

♣ This product ships from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

Full Range RF Modulator with LED Display

Convert any composite signal (CCTV camera, VCR, DVD, etc.) to TV channel.

- Digital LED display
- Digital phase lock loop tuning
- Video input RCA, output coaxial F-type
- Mode selector for UHF, CATV, HRC, or IRV
- 120 selectable channels
- Full channel memory for power outages
- Surface mount technology PC Boards
- UL listed power supply included
- Size: 3.8"L x 4.1"W x 1.5"H

Part No.	Product No.	1	5
540710CE	MOD-1001D	\$93.85	\$84.45

♣ This product ships from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

Channel 3/4 RF Modulator

Converts a composite video signal to an RF signal and displays on Channels 3/4. Use to connect a video camera to TV for security surveillance.

- Inputs: RCA, audio and video
- Outputs: Coax F connector
- UL listed
- Size: 3.25"L x 4.5"W x 1.25"H

Part No.	Product No.	1	5
540761CE	RFM-1A	\$36.39	\$32.76

♣ This product ships from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

B/W Quad Splitter with Motion Detection

Video/VCR input to quad picture display with real time refresh rate and sequential switching. Video motion and loss detection. Time/date/title display.

- Full compression (digitally processed)
- Freeze frame, PIP, 2 x 2 zoom in live and playback modes
- Alarm inputs, alarm output NC/NO
- Alarm history
- 9 bit / 30 MHz sampling picture
- Video input: 1Vp-p adjustable, 75Ω terminated, 4 BNC connectors
- Video output: 1Vp-p, 75Ω, switched output, 1 BNC quad output, 1 BNC
- Video format: EIA or CCIR monochrome
- NTSC video signal
- Power source: 12VDC/ 250mA
- Size: 8.2"L x 9.5"W x 2.5"H

Part No.	Product No.	1	5
540779CE	ROS-10B	\$155.85	\$140.23

♣ This product ships from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

Two-Station Wired Intercom

Two-station, single-channel wired intercom. Push-to-talk and call buttons, on/off volume control, LED status indicators, and integrated solid state circuitry.

- Size: 3.25"H x 4.5"W x 1.25"D

Includes: 9V battery and 50 foot cable

Part No.	Product No.	1	5
540437CE	BI-2SD	\$26.79	\$24.10

♣ This product ships from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

CCTV Power/Video Extension Cables

Power and video signal in one multipurpose cable! BNC to RCA. Available in 25, 50, and 150 foot lengths.

Part No.	Product No.	1	5
540453CE	CBL-25BB	\$10.69	\$10.53
540461CE	CBL-50BB	13.35	12.70
540445CE	CBL-150BB	23.05	20.71

♣ These products ship from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

Jameco's Got the Docs

We offer free technical documents for most of the products we carry. Find them easily on the product spec pages at www.Jameco.com.

VISEC Home Office Security System **NEW**

Turns your PC into a powerful, global-wide surveillance system in 5 minutes or less.

- Watch live or recorded video from anywhere in the world via the Internet
- Record months of video at a time
- Record when motion is detected, incrementally, or continuously
- Be alerted when intruder enters with a picture to your cell phone, PDA or email address.
- Supports multiple cameras including: webcams, spycams, wireless cameras and IP based network cameras.
- No monthly fees
- Installs in minutes



Includes
FREE
Camera!

Minimum system requirements: Windows® 95/ 98/ ME/ NT/ 2000/XP

Part No.	Description	1	10
404531CE	Security system	\$150.99	\$139.00

Mini Indoor Pan & Tilt Mechanism **Continuous Pan**

- Automatic scanning: 0° – 355° angular travel; pan clockwise and counter-clockwise
- Manual tilt: 0° – 90°
- Pan speed: 5°/sec.
- Maximum load: 4.4 lbs.
- Power consumption: 1 watt
- Size: 2.5"Dia. x 2.4"H
- Warranty: 2 years continuous use • Weight: 0.4 lbs.



Camera not included

Includes: 24V @ 150mA power supply, wall mount bracket and mounting hardware

Part No.	Description	1	10
215407CE	Mini pan/tilt	\$49.95	\$44.95

Outdoor Metal Camera Enclosures

- Plate glass: 3mm thick
- Outdoor use
- 170931CE: without heater**
- Clear window area: 2.5"W x 2.3"H
- Max. camera size: 4.0"L x 2.4"W x 2.4"H
- Size: 16.0"L x 4.9"W x 4.9"H • Weight: 2.8 lbs.
- 170940CE: w/ heater (keeps optics from fogging)**
- Clear window area: 3.5"W x 3.1"H
- Max. camera size: 6.5"L x 3.2"W x 3.2"H
- Size: 11.0"L x 3.6"W x 3.6"H • Weight: 6.8 lbs.



Part No.	Description	1	10
170931CE	Camera housing	\$28.45	\$26.55
170940CE	Camera housing w/ heater	62.95	59.89

Indoor Metal Camera Enclosure

- Clear window area: 2.2"W x 1.8"H
- Maximum camera size: 7.1"L x 2.6"W x 2.4"H
- Overall size: 11.7"L x 3.1"W x 2.7"H • Weight: 1.5 lbs.



Part No.	Description	1	10
310691CE	Camera housing	\$27.49	\$26.15

Mount your video camera almost anywhere

As steady as a tripod, the Window Camera Mount lets you anchor that video camera to any glass surface at any height.



Mounts easily to your car window

Mount your video or CCTV camera on any window or other non-porous surface, and capture what you've never been able to before. This heavy-duty metal mounting bracket attaches securely to any glass surface with a strong lever-activated 3.25" neoprene suction cup. Mount your camera onto the tripod-style screw. Adjust to any position, and you're ready to shoot hands-free. It's perfect for temporary surveillance of your business or home. For cameras up to 3 lbs.

Part No.	Description	1	5
222746CE	CCTV camera window mount	\$33.19	\$29.87

Camera Mounting Bracket

- Aluminum construction (white coated)
- Maximum load: 6.5lbs.
- Overall height: 5.1"
- Base diameter: 1.8"
- 360 degree tilt swivel
- 120 degree tilt angle
- Base mounted w/ 3 screws (included)



Part No.	Description	1	10
311191CE	15-B009	\$6.65	\$6.19

Mounting Brackets for Enclosed Camera

- Material: plastic
- Base mounted w/ 3 screws
- Swivel angle: 360°
- Tilt angle: 90°
- For use w/ enclosed cameras (P/N 150404CE, pg 234)



Part No.	Max Load (lbs.)	Ht. (in.)	1	10
171002CE	11 lbs.	6.4	\$4.69	\$4.08
170982CE	6.6 lbs	2.0	\$5.49	\$4.94

Heavy Duty Camera Mounting Bracket

- Steel construction (white coated)
- Maximum load: 22 lbs.
- Overall length: 11.2"
- Base size: 3.8"L x 33.3"W
- 360° swivel angle, 90° tilt angle



Includes: Base mounted w/ 3 screws

Part No.	Mfr. Part No.	1	10
320151CE	15-B006	\$16.65	\$14.95

See our selection of security cameras on pages 234-235.

EyeD USB OptiMouse with Biometric Recognition Software

With security and convenience of its finger print recognition module, this is the world's smartest mouse. No need to memorize passwords—the simple yet unique touch of your finger securely protects your PC, network, and the Internet all at once.



- Surface enhanced irregular reflection optical design
- Fingerprint extraction and verification technology
- Applications: PC and network security, Enterprise IT solution, secure files and folders within your PC, E-commerce

SALE

System requirements: Windows® 95/95/NT/2000/ME/XP, available USB port

Part No.	Description	1	10
262625CE	EyeD USB OptiMouse	\$115.95	\$110.19

Notebook Computer Security Cable

This security cable uses a unique lock slot that is built into most of today's leading notebook computers. If your computer is from Apple, Compaq, Dell, Digital, HP, IBM or Toshiba, among others, you probably have the built-in security lock slot at the side of your computer. Safeguard your laptop, desktop, and other valuable equipment.



Part No.	Description	Length	1	10
355573CE	Security cable	6ft	\$26.85	\$24.19

Monitor/TV Wall Mount Bracket

- 95° swivel
- Assembly required
- Requires unit base to be mounted securely to wall stud
- Wall mount screws not included
- Supports up to 66 lbs. • Weight: 9.0 lbs.



⊕ Blue Part No. = Limited Quantity Available

Part No.	Description	1	10
181817CE	12"-18" TV wall mount ⊕	\$23.69	\$21.55

Mini Alarm Siren

- Sound pressure: 108dB
- Output frequency: 3000Hz
- Rated: 2-12VDC @ 300mA
- Adjustable mounting plate
- 16" color coded connector wires, tinned
- Size: 2.8"Dia. x 2.5"L



Part No.	Description	1	10	50
148152CE	Alarm siren	\$8.95	\$7.99	\$6.35

We're Listening to Your Requests

Email us 24/7 at
NewProducts@Jameco.com with suggestions for products you'd like to see in future catalogs.

ABBATRON Banana Plugs and Jacks

Threaded Insulated Banana Plugs

NEW
ON THE WEB

- Male
- Various sizes
- Contact material: brass
- Contact plating: nickel
- Connection hardware supplied



Insulated Banana Plugs

- Male
- Various sizes



Threaded Uninsulated Banana Jacks

- Female
- Various sizes
- Contact material: brass
- Contact plating: nickel
- Connection hardware supplied



Insulated Banana Jacks

- Female
- Various sizes



Giant Insulated Banana Jacks

- Female
- 1-3/16"
- Red and black



These products ship from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

See Our Abbatron Banana Connector Offering at
www.Jameco.com/Prod/AbbatronBanana

ABBATRON

Patch Cords

- 36"
- 18 AWG
- PVC insulation

NEW
ON THE WEB

- Offer reliable semi-permanent connections between instruments with a maximum of safety and reliability



These products ship from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

See Our Abbatron Patch Cord Offering at
www.Jameco.com/Prod/AbbatronPatchCords

ABBATRON

Test Probes

- Solder or solderless
- ABS material
- 5-1/2" handle length
- Threaded receptacle tip

NEW
ON THE WEB

These products ship from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

See Complete Abbatron Test Probes Offering at
www.Jameco.com/Prod/AbbatronProbes

ABBATRON

Printed Circuit Test Jacks

- Gold finish
- 1500V
- 5A current max.
- Various colors
- Mount in .052" holes
- Molded nylon beryllium copper spring

NEW
ON THE WEB



These products ship from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

See Our Complete Abbatron PC Jack Offering at
www.Jameco.com/Prod/AbbatronPCJacks

ABBATRON

Solder Lug Terminal Strips

- 4-terminal
- Electro-tin plated steel lugs are mounted on .062" thick flame-retardant phenolic

NEW
ON THE WEB



These products ship from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

See Abbatron Terminal Strip Offering at
www.Jameco.com/Prod/AbbatronTerminalStrips

Grayhill

Series 02 Test Clips

- Rapid easy connectors
- Hexnut for adjusting tension
- Miniature, ultra miniature, threadless and threaded stud types

NEW
ON THE WEB



These products ship from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

See Our Complete Grayhill Test Clip Offering at
www.Jameco.com/Prod/GrayhillTestClips

Lowest Price Guarantee

Have you found a product at a lower price advertised price? We'll beat that price by 10% right down to our cost.

Pomona

Solderless Banana Plugs



159863CE



159855CE



159927CE

- Nickel-plated
- ABS insulation
- Sets include 1 black and 1 red

159863CE/571153CE/571161CE: w/ safety collar

159855CE/571137CE/571145CE: w/ set screw

159927CE/571250CE/571268CE: double banana plug w/ wire guide

* Prepackaged: please order in increments of 10 or 25

Part No.	Prod. No.	Description	1	10	25
159863CE	1825-02	Set	\$2.65	\$2.50	\$2.38
571153CE	1825-04	Black 10 pk. 13.05	13.05	12.75	12.35
571161CE	1825-24	Red 10 pk. 13.05	13.05	12.75	12.35
159855CE	1325-02	Set	3.29	2.99	2.69
571137CE	1325-04	Black 10 pk. 13.05	13.05	12.75	12.35
571145CE	1325-24	Red 10 pk. 13.15	13.15	12.53	12.37
159927CE	MDP-02	Set	4.69	4.38	4.07
571250CE	MDP-04	Black	*	2.25	2.17
571268CE	MDP-24	Red	*	2.26	2.17

These products ship from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

JAMECO

BenchPro

BNC to Standard Double Banana Plugs



11439CE



125225CE

Permits BNC cables to be used with equipment having banana jacks. Lower connection: BNC; upper connection: double banana plug on .750" centers. Cross holes .166" diameter in body provide side stack-up connections.

Part No.	Description	1	10	100
11439CE	BNC banana plug (F)	\$4.95	\$4.49	\$3.99
125225CE	BNC banana plug (M)	5.49	4.67	3.50

JAMECO

BenchPro

Double Banana Plugs

- Dual gold-plated female
- Stackable



Part No.	Description	1	10	100
125209CE	Blk banana conn.	\$2.65	\$2.25	(1.69)
125217CE	Red banana conn.	1.99	1.79	1.61

JAMECO

BenchPro

1" Screw-Type Binding Posts

- For both wire and standard banana
- 0.16" hole for banana test leads
- Chassis mount w/ lock washer and nut
- Solder tab hole: 0.06"Dia.
- Size: 1.0"L x 0.5"Dia.



Requires: 0.32" mounting hole
Includes: One red and one black insulated post

Part No.	Description	1	10	100	1000
71239CE	Binding posts (2)	\$.99	\$.85	\$.69	\$.59

JAMECO

BenchPro

1 3/4" Screw/Solder Binding Posts

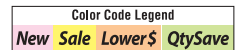
- For both wire & standard banana
- 0.16" hole for banana test leads
- Chassis mounting
- Solder post: 0.06"Dia.
- Size: 1.8"L x 0.5"Dia.



Includes: One red and one black

Part No.	Description	1	10	100	1000
77690CE	Binding posts (2)	\$1.09	\$.95	\$.79	\$.69

Test Leads, Plugs and Binding Posts



Pomona BNC Terminator **NEW**

- Male
- 75Ω

♣ This product ships from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

Part No.	Description	1	10	25
571209CE	3840-75♣	\$9.89	\$9.75	\$9.32

Pomona Terminal Adapter **NEW**

- Converts terminal strip to banana jack
- Screw size: 10-32 • Black

♣ This product ships from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

Part No.	Description	1	10	25
571225CE	5701-0♣	\$3.29	\$3.20	\$3.10

Chassis Mount Banana Jack

- 0.158"
- Molded ABS black plastic body
- Nickel plated steel solder lug and washer

Part No.	Description	1	10	100
291936CE	Black banana jack	\$.67	\$.52	\$.48

Jameco BenchPro Panel Mount Tip Jacks 1/4" – 32 Thread

Mounts in panels ranging in thickness from 0.063" to 0.375".

- Plating: bright tin
- Material: brass
- Insulation: polycarbonate • 10 per package

Part No.	Cross Ref. No.	Color	1	10	100
256778CE	R1-17-BLK	Black ...	\$8.59	\$8.15	\$7.75
263863CE	R1-17-RED	Red	8.59	8.15	7.75

Jameco BenchPro Double Binding Posts – Dual Banana

- Red/black design
- Screw-mount
- 0.72" between posts
- Size: 1.6"L x 1.4"W

Part No.	Description	1	10	100
125196CE	Screw mount bind post ..	\$3.95	\$3.45	\$3.19

Jameco BenchPro Single Binding Post to BNC Male

- Binding post with captive thumb nut
- Accepts standard banana plugs
- Operating voltage: 500 VRMS
- Brass nickel plated

See page 131 for BNC Connectors

Part No.	Description	1	10	100
100600CE	Red binding post	\$1.59	\$1.34	\$1.06
100618CE	Black binding post	1.59	1.34	1.06

Pomona 11"L Test Lead Holders

- 155985CE: Max cable dia.: 0.450"
- 155977CE: Max cable dia.: 0.320"
- 155969CE: Max cable dia.: 0.210"

Part No.	Prod. No.	Slots	Color	1	10	25
155985CE	2708B	9	Blue	\$9.95	\$9.45	\$8.98
155977CE	4408	10	Black	9.95	9.45	8.95
155969CE	1508	14	Orange ...	9.95	9.45	8.98

BNC to Double Binding Posts – Dual Banana



- Red/black design

Part No.	Description	1	10	100
125233CE	BNC-female	\$4.95	\$4.21	\$3.16
99354CE	BNC-male	5.29	4.76	4.28

Jameco BenchPro Universal Test Lead Kit

Includes: 3' black/red cables, 4.5" black/red insulated test probes, 0.8" needle probes, spade terminals, 2 sets of 4 pieces each red/black insulated alligator clips and banana plug

Part No.	Description	1	10	100
168516CE	Universal kit	\$8.95	\$7.95	\$6.95

Jameco BenchPro Protected Banana Style Multimeter Test Probes

- Threaded/pointed test tip
- Black and red
- 18 AWG wire • 42" long
- 2 per package

Part No.	Description	1	10	25
77737CE	Protected probes	\$6.49	\$5.85	\$5.25

Jameco BenchPro Standard Banana Style Multimeter Test Probes

- Black and red
- 18 AWG wire
- 42" long
- 2 per package

Part No.	Description	1	10	25
77745CE	Std. banana probes ..	\$7.69	\$6.95	\$6.25

PROBE MASTER Probe Test Leads

- 23K gold tips
- Silicon wire
- 1000V rated
- Length: 3'3"

174625CE Includes:

- 10 plunger type tips
- 212222CE Includes:
- 10 pieces: screw-on alligator clips, spade lugs and spring hooks

Part No.	Description	1	10	25
174625CE	Micro tip test leads	\$29.85	\$28.35	\$26.95
212222CE	Softie test leads	23.85	22.65	21.55

PROBE MASTER Probe Kit

- Rating: 1000V 10A
- Gold tips and contacts
- Electronic deluxe probe kit includes leads with shrouded right angle banana plug, probes, sprung hook probes, alligator clips, spade lugs, extender probes, minigrabber leads, .025" wire wrap leads, pico hooks and pincer hooks

Part No.	Description	1	10
212249CE	Elect. deluxe probe kit	\$65.95	\$62.99

Pomona Replacement Probe Test Lead Set

- Set of two PVC 48" insulated leads, probe to banana plug
- Fits all DMMs
- Right-angle multimeter connectors

Part No.	Product No.	1	10	25
155951CE	5519A	\$12.95	\$11.49	\$10.49

Pomona Mini BNC Test Probe Kit **NEW**

- Mini BNC
- Kit

♣ This product ships from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

Part No.	Description	1	5	10
571217CE	3840-75 probe kit ♣	\$31.85	\$30.26	\$28.75

Jameco BenchPro Micro Test Clip

- One piece per package

Part No.	Description	1	10	100	1000
153162CE	1.6" micro test clip	\$.75	\$.68	\$.54	\$.41

Jameco BenchPro Mini Test Clips

- Two lengths
- Includes: One black and one red hooked probe clip

Part No.	Description	1	10	100
114809CE	1.75" mini test clips	\$1.89	\$1.49	\$1.35
114817CE	3.5" mini test clips	1.75	1.49	1.12

Jameco BenchPro Mini-Clip Test Leads

- These spring loaded mini-clips hook easily to IC pins for testing.
- Set of five: red, blue, green, black and yellow
- 14"L: clips on both ends
- 26 AWG to 300V CSA/UL approved wire

Part No.	Description	1	10	100	1000
135298CE	Mini test leads	\$11.49	\$10.39	\$9.29	\$8.39

Jameco BenchPro Alligator Clip Leads

- 24 AWG wire
- Color-coded, 15" long
- Insulated alligator clip on each end
- 10 per pkg. in assorted colors

Part No.	Description	1	10	100	1000
10444CE	Alligator leads	\$4.39	\$3.95	\$3.56	\$3.20

Pomona Minigrabber® Test Clip Patch Cord Kit

- One each of 10 colors: black, brown, red, orange, yellow, green, blue, violet, gray and white
- 24" leads; clips on both ends

Part No.	Prod. No.	Description	1	10
156494CE	5523	Patch cord (hook)	\$34.95	\$31.49

JAMECO **BenchPro** BNC Female Connector with 20AWG Lead Wires

Solder the 20AWG wires onto your protoboard, plug the BNC female connector into your test equipment and you have an instant testing board for varied applications.

- BNC female connector • 7" 20AWG lead wires

Part No.	Cross Ref. No.	1	10	100
256831CE	CBB-069	\$5.39	\$5.15	\$4.89

JAMECO **BenchPro** BNC to Clip Test Cables



BNC connectors are designed for signal frequencies into the gigahertz range, making them ideal for communications, video & test equipment.

- Micro-clip or mini-clip • Length: 39"

Part No.	Description	1	10	50	100
11421CE	Micro-clip RG174	\$3.99	\$3.19	\$2.89	\$2.59
11463CE	Mini-clip RG174	4.39	3.99	3.59	3.19

JAMECO **BenchPro** Double-Banana Plug to Alligator Clips Test Cable

- Red & black rubber boot
- 4" lead wire
- Length: 3'



Part No.	Description	1	10	50	100
107422CE	Test cable	\$3.95	\$3.49	\$2.95	\$2.49



BNC to Minigrabber® Test Clips

- RG 174/U, .100" O.D.
- Rating: 300 V_{RMS} max., +50°C (+122°F) max.
- Strain relief: PVC molded directly to connector
- Length: 36"



Part No.	Product No.	1	10
176954CE	5187-K-36	\$21.95	\$19.95

Pomona BNC Male w/ Molded Strain Relief to Minigator® Test Clips

- RG 58C/U, .195" O.D.
- Rating: 45 V_{RMS} max., +50°C (+122°F) max.
- Jaws open to .187" max.
- Length: 36"



Part No.	Product No.	1	10
176971CE	4532-C-36	\$16.95	\$15.26

Pomona BNC Cables

- RG58 C/U 50Ω cable
- BNC male connectors
- Molded strain relief
- Length: P/N 159871CE: 36"
P/N 159880CE: 60"



Part No.	Product No.	1	10	25
159871CE	2249-C-36	\$15.95	\$14.39	\$12.95
159880CE	2249-C-60	15.95	15.15	14.39

Color Code Legend
New Sale Lower\$ QtySave

JAMECO **BenchPro** Mini-Clip to Banana Test Cables

- Plunger-type action
- Available in black or red
- Positive connection that won't disconnect from components
- Banana plug connection on opposite end
- Length: 3.5' • 20 AWG insulated wire



Part No.	Description	1	10	100
21856CE	Black test cable	\$3.95	\$3.55	\$2.99
21864CE	Red test cable	3.95	3.49	2.99

JAMECO **BenchPro** Banana-to-Banana Test Leads

- Stackable
- Color coded; 2 each red, yellow, blue, black, white • 9.8" long
- 10 per package • 18 AWG wire



Part No.	Description	1	10	25
77841CE	Test leads	\$22.95	\$20.69	\$18.59



Stackable Banana Test Lead Cables



- 5000V @ 15A • 55°C max. **NEW**
- 159898CE: Two 36" leads, mini clip w/ banana
- 45VAC @ 5A max.; beryllium copper contact and glass filled insulation
- 571188CE: One black; 5' 571196CE: One red; 5'; red
- 159901CE: Two 24" leads 159919CE: Two 36" leads
- 571241CE: One black; 4'

Part No.	Prod. No.	Description	1	10	25
159898CE	3782-36	Mini w/ banana	\$7.95	\$7.19	\$6.59
571188CE	3782-60-0	Mini w/ banana	3.89	3.79	3.68
571196CE	3782-60-2	Mini w/ banana	3.89	3.79	3.68
159901CE	B-24-02	Patch cord	9.95	8.95	7.95
159919CE	B-36-02	Patch cord	9.95	8.95	7.95
571241CE	B-48-0	Patch cord	5.05	4.52	4.07

⚡ These products ship from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

JAMECO **BenchPro** BNC to Alligator Clip Test Cable

Permits BNC assembly to be used as a test cable.

- Upper connection: two alligator clips – red 5.5" 22AWG wire; black 9" 22AWG wire
- Lower connection: 23" RG/58U cable with BNC connector



Part No.	Description	1	10	100	1000
11383CE	BNC cable	\$3.49	\$2.49	\$2.25	\$2.05

JAMECO **BenchPro** Insulated Alligator Clips

- Color-coded
- Insulated barrel
- Jaw opening .375"-0.5"
- Solder strap and pre-drilled hole for 6-32 self threading screw
- Size: 2.3"L x 0.5"W



Includes: One red and one black clip

Part No.	Description	1	10	100	1000
70990CE	Alligator clips	\$3.39	\$3.36	\$3.33	\$3.30

JAMECO **BenchPro** 1 1/16" Banana Plugs

- Set-screw connection
- Standard banana spring plug
- Additional 6-32 threaded hole for connection reliability
- Insulating sleeve is threaded to banana plug body
- .1875" lead opening • Size: 1.6"L x 0.4"Dia.



Includes: One red and one black plug

Part No.	Description	1	10	100	1000
72194CE	Banana plugs	\$1.59	\$1.49	\$1.25	\$1.09

JAMECO **BenchPro** 2 1/4" Banana Plugs

- Nine rib spring plug
- Will accept up to 0.1" dia. wire
- Each plug equipped with hole for interconnection
- Insulating sleeve fits snugly over copper post
- Size: 2.3"L x 0.3"W • Set-screw connection



Includes: One red and one black connector

Part No.	Description	1	10	100
137525CE	Banana plugs	\$2.95	\$2.12	\$1.84

Claw Clips and Alligator Clips



- Sold in increments of 2, 4 or 10 ⚡ Blue Part No. = Limited Quantity Available

Part No.	Description	Size	2	4	10
248920CE	Mini-alligator clip solder/crimp	1.2"L x 0.3"W	\$2.28	\$2.25	\$2.23
248954CE	Red insulator for 248920CE	—	.18	.16	.14
248946CE	Black insulator for 248920CE	—	.18	.16	.14
256524CE	Alligator clip, barrel/screw	1.9"L x 0.2"W	.45	.38	.35
248938CE	Alligator clip, solder/crimp	1.6"L x 0.3"W	.52	.48	.42
248971CE	Red insulator for 248938CE/256524CE	—	.21	.19	.17
248962CE	Black insulator for 248938CE/256524CE	—	.21	.19	.17
248989CE	Claw clip 10A, screw terminal	2.1"L x 0.4"W	.45	.44	.40
249009CE	Claw clip 20A, screw terminal	2.5"L x 0.5"W	.55	.50	.49
248997CE	Claw clip 30A, screw terminal ⚡	2.8"L x 0.6"W	.69	.62	.58

See www.Jameco.com/DMM for accuracy and complete specifications

JAMECO

BenchPro

✓ Professional Grade

✓ Consistent Quality

✓ Awesome Prices

✓ Backed by Jameco

Color Code Legend

New Sale Lower\$ QtySave

JAMECO

BenchPro

✓ Professional Grade

✓ Consistent Quality

✓ Awesome Prices

✓ Backed by Jameco

See www.Jameco.com/DMM for accuracy and complete specifications

- Mastech
- Mastech M300
- 2000 count

• 6 functions

• Extremely low cost

- Velleman
- Velleman DVM850BL
- 2000 count

• 6 functions

- JAMECO
- Jameco JE110
- 2000 count

• 6 functions

• Pocket size with 100µV resolution

- JAMECO
- BenchPro
- BP-1562
- 2000 count

• 6 functions

- Mastech
- Mastech MAS830L
- 2000 count

• 7 functions

• Continuity test

- Mastech
- Mastech MAS838
- 2000 count

• 8 functions

• Temperature

- JAMECO
- BenchPro
- BP-1206
- 2000 count

• 8 functions

• Auto-zero

- EXTECH
- Extech MV110
- 2000 count

• 8 functions

• Tilttable display

- METEX
- Metex M3800
- 2000 count

• 8 functions

• Auto-zero

- Mastech
- Mastech MY64
- 2000 count

• 11 functions

• Temperature

• Frequency



Sizes shown are for relative comparisons.



Pocket Sized

Pocket Sized

A Jameco EXCLUSIVE

A Jameco EXCLUSIVE

P/N 220812CE \$9.79

New 2000 Count DMM Featured on page 244

P/N 355207CE \$16.75

P/N 119212CE \$19.95

P/N 318781CE \$9.95

P/N 220759CE \$13.95

P/N 220741CE \$19.95

P/N 27116CE \$39.95

P/N 197958CE \$36.95

P/N 27115CE \$39.95

P/N 220775CE \$38.79

SALE

page 24				Basic Measurement Functions										Test Functions				Special Functions				SALE						
Jameco Part No.	Product No.	Display Count	No. of Functions	Resolution (max DC)	DC Voltage Ranges (V)	AC Voltage Ranges (V)	DC Current Ranges (A)	AC Current Ranges (A)	Resistance Ranges (Ω)	Capacitance Ranges (F)	Inductance Ranges (H)		Frequency Ranges (Hz)	Temperature Range		Diode Test	Logic Test	Continuity Test	Transistor hFE Test		Analog Bargraph	RS-232 PC Interface	True RMS	Size (H"xW"xD")	Jameco Part No.	Pricing		
														°C	°F										1	5		
220812CE	Mastech M300	2000	6	1mV	2 - 500	200 - 500	200mA	—	2k - 2M	—	—	↔	—	—	—	✓		✓						4.7 x 2.7 x 0.8	220812CE	\$9.79	\$8.85	
355207CE	Velleman DVM850BL	2000	6	100µV	200m - 100	200 - 600	200µ - 10	—	200 - 2M	—	—		—	—	—	—	✓		✓	✓					5.4 x 2.7 x 1.2	355207CE	16.75	15.92
119212CE	Jameco JE110	2000	6	100µV	200m - 1000	200 - 750	200µ - 10	—	200 - 2M	—	—		—	—	—	—	✓			✓					4.8 x 2.6 x 1.0	119212CE	19.95	15.96
318781CE	BenchPro BP-1562	2000	6	100µV	200m - 600	200 - 750	200µ - 10	—	200 - 2M	—	—		—	—	—	—	✓			✓					5.4 x 2.7 x 1.2	318781CE	9.95	9.45
220759CE	Mastech MAS830L	2000	7	100µV	200m - 600	200 - 600	200µ - 10	—	200 - 2M	—	—		—	—	—	✓		✓						5.7 x 3.0 x 1.4	220759CE	13.95	13.24	
220741CE	Mastech MAS838	2000	8	100µV	200m - 600	200 - 600	2m - 10	—	200 - 2M	—	—		—	-20 to 1000	—	✓		✓	✓					5.7 x 3.0 x 1.4	220741CE	19.95	15.96	
27116CE	BenchPro BP-1206	2000	8	100µV	200m - 1000	200m - 700	20µ - 10	20µ - 10	200 - 20M	—	—		—	—	—	✓		✓	✓					6.8 x 3.5 x 1.4	27116CE	39.95	35.95	
197958CE	Extech MV110	2000	8	100µV	200m - 1000	200m - 750	20µ - 10	20µ - 10	200 - 200M	—	—		—	—	—	✓		✓	✓					7.3 x 3.5 x 1.3	197958CE	36.95	35.19	
27115CE	Metex M3800	2000	8	100µV	200m - 1000	200m - 700	20µ - 20	20µ - 20	200 - 20M	—	—		—	—	—	✓		✓	✓					6.8 x 3.5 x 1.4	27115CE	39.95	35.95	
220783CE	M9704	2000	8	100µV	200m - 600	200m - 600	2m - 200m	2m - 200	200 - 20M	2nF - 20µF	—		20K	-20 to 1000	—	✓		✓	✓					7.6 x 4.0 x 1.5	220783CE	34.95	31.46	
220775CE	Mastech MY64	2000	11	100µV	200m - 1000	200m - 700	2m - 10	2m - 10	200 - 200M	2n - 20µ	—	↔	2k - 20k	-20 to 1000	—	✓		✓	✓					7.4 x 3.6 x 1.3	220775CE	38.79	34.91	
177480CE	AEEC 2890	2000	11	100µV	200m - 1000	2 - 700	2m - 10	200m - 10	200 - 20M	2n - 20µ	—		20k	-20 to 1000	—	✓		✓	✓					8.0 x 4.0 x 2.0	177480CE	52.49	47.24	
182035CE	Fluke 73-III	3200	9	100µV	320m - 600	320m - 600	320m - 10	320m - 10	320 - 32M	—	—		—	—	—	✓		✓	✓		✓			6.6 x 3.0 x 1.1	182035CE	164.95	159.95	
220767CE	Mastech MY68	3260	12	100µV	326m - 1000	3.26 - 700	326µ - 10	326µ - 10	326 - 32.6M	326n - 32.6µ	—		32.6k - 150k	—	—	✓		✓	✓		✓			7.4 x 3.6 x 1.3	220767CE	35.95	32.36	
216514CE	Metex ME-31	4000	10	100µV	400m - 1000	400m - 750	4m - 20	4m - 20	400 - 4M	—	—		—	—	—	✓		✓	✓		✓	✓		7.3 x 3.3 x 1.5	216514CE	56.95	54.15	
211650CE	Extech MN26	4000	11	100µV	400m - 600	400m - 600	400µ - 10	400µ - 10	400 - 40M	4n - 200µ	—		10 - 10M	0 to 760	0 to 1400	✓		✓	✓		✓			4.8 x 2.4 x 1.6	211650CE	39.95	37.95	
117373CE	BenchPro BP-1949	4000	11	100µV	400m - 400	4 - 400	400µ - 10	400µ - 10	400 - 4M	50n - 100µ	—		5 - 50k	-20 to 1000	—	✓		✓	✓		✓			7.7 x 3.6 x 1.6	117373CE	89.95	71.96	
137462CE	BenchPro BP-1737	4000	11	100µV	400m - 400	4 - 400	400µ - 10	400µ - 10	400 - 4M	50n - 100µ	—		5 - 50k	-20 to 1000	—	✓		✓	✓		✓	✓		7.7 x 3.6 x 1.6	137462CE	119.95	113.95	
117372CE	Metex M3850D	4000	14	100µV	400m - 1000	400m - 750	400µ - 20	400µ - 20	400 - 40M	4n - 400µ	—	↔	4k - 40M	-40 to 1200	—	✓		✓	✓		✓	✓		7.2 x 3.3 x 1.8	117372CE	104.95	99.69	
215589CE	Metex M3890D	4000	15	100µV	400m - 1000	4 - 750	400µ - 20	400µ - 20	400 - 40M	4n - 200µ	—		4k - 40M	-40 to 1200	-40 to 2192	✓	✓	✓	✓		✓	✓		7.8 x 3.5 x 1.7	215589CE	99.95	94.99	
137461CE	Metex M3860D	4000	16	100µV	400m - 1000	400m - 750	40m - 20	40m - 20	400 - 40M	4n - 400µ	40m - 400m		4k - 40M	-40 to 1200	—		✓	✓	✓		✓	✓	✓	7.2 x 3.3 x 1.8	137461CE	149.95	134.99	

DMMs continued on pages 244 – 245.

DMMs continued on pages 244 – 245.

- AEEC
- AEEC 2890
- 2000 count

• 11 functions

• Temperature

• Frequency

• Tilttable display

- FLUKE
- Fluke 73-III
- 3200 count

• 9 functions

• Autorange

• Frequency

• Analog bargraph

- Mastech
- Mastech MY68
- 3260 count

• 12 functions

• Autorange

• Analog bargraph

- METEX
- Metex ME-31
- 4000 count

• 10 functions/RS232

• Autorange

• Analog bargraph

- EXTECH
- Extech MN26
- 4000 count

• 11 functions

• Autorange

• Temperature

• Frequency

- JAMECO
- BenchPro
- BP-1949
- 4000 count

• 12 functions/RS-232

• Autorange

• Temperature

• Frequency

- JAMECO
- BenchPro
- BP-1737
- 4000 count

• 12 functions/RS-232

• Autorange

• Temperature

• Frequency

- METEX
- Metex M3850D
- 4000 count

• 14 functions/RS-232

• Autorange

• Temperature

• Frequency

- METEX
- Metex M3890D
- 4000 count

• 15 functions/USB

• Autorange

• Temperature

• Frequency

- METEX
- Metex M3860D
- 4000 count

• 16 functions/RS232

• Autorange

• Temperature

• Frequency



P/N 177480CE \$52.49



P/N 182035CE \$164.95



P/N 220767CE \$35.95



P/N 216514CE \$56.95



Pocket Sized

P/N 211650CE \$39.95



A Jameco EXCLUSIVE

P/N 117373CE \$89.95



True RMS

A Jameco EXCLUSIVE

P/N 137462CE \$119.95



Analog Bargraph

P/N 117372CE \$104.95



Triple Display

P/N 215589CE \$99.95



True RMS

Dual Display

P/N 137461CE \$149.95

See www.Jameco.com/DMM for accuracy and complete specifications

JAMECO
BenchPro

✓ Professional Grade
✓ Consistent Quality
✓ Awesome Prices
✓ Backed by Jameco

Color Code Legend

New Sale Lower\$ QtySave

JAMECO
BenchPro

✓ Professional Grade
✓ Consistent Quality
✓ Awesome Prices
✓ Backed by Jameco

See www.Jameco.com/DMM for accuracy and complete specifications

- Mastech
- Mastech M300
- 2000 count
 - 6 functions
 - Extremely low cost

- Velleman
- Velleman DVM850BL
- 2000 count
 - 6 functions

- JAMECO
- Jameco JE110
- 2000 count
 - 6 functions
 - Pocket size with 100µV resolution

- JAMECO BenchPro
- BP-1562
- 2000 count
 - 6 functions

- Mastech
- Mastech MAS830L
- 2000 count
 - 7 functions
 - Continuity test

- Mastech
- Mastech MAS838
- 2000 count
 - 8 functions
 - Temperature

- JAMECO BenchPro
- BP-1206
- 2000 count
 - 8 functions
 - Auto-zero

- EXTECH
- Extech MV110
- 2000 count
 - 8 functions
 - Tilttable display

- METEX
- Metex M3800
- 2000 count
 - 8 functions
 - Auto-zero

- Mastech
- Mastech MY64
- 2000 count
 - 11 functions
 - Temperature
 - Frequency



Sizes shown are for relative comparisons.



Pocket Sized

Pocket Sized

A Jameco EXCLUSIVE

A Jameco EXCLUSIVE

Sizes shown are for relative comparisons.

P/N 220812CE
\$9.79

New 2000 Count DMM Featured on page 244

P/N 355207CE
\$16.75

P/N 119212CE
\$19.95

P/N 318781CE
\$9.95

P/N 220759CE
\$13.95

P/N 220741CE
\$19.95

P/N 27116CE
\$39.95

P/N 197958CE
\$36.95

P/N 27115CE
\$39.95

SALE

P/N 220775CE
\$38.79

<div>page 24</div>				Basic Measurement Functions										Test Functions				Special Functions				SALE						
Jameco Part No.	Product No.	Display Count	No. of Functions	Resolution (max DC)	DC Voltage Ranges (V)	AC Voltage Ranges (V)	DC Current Ranges (A)	AC Current Ranges (A)	Resistance Ranges (Ω)	Capacitance Ranges (F)	Inductance Ranges (H)		Frequency Ranges (Hz)	Temperature Range		Diode Test	Logic Test	Continuity Test	Transistor hFE Test		Analog Bargraph	RS-232 PC Interface	True RMS	Size (H"xW"xD")	Jameco Part No.	Pricing		
														°C	°F										1	5		
220812CE	Mastech M300	2000	6	1mV	2 - 500	200 - 500	200mA	—	2k - 2M	—	—	↔	—	—	—	✓		✓						4.7 x 2.7 x 0.8	220812CE	\$9.79	\$8.85	
355207CE	Velleman DVM850BL	2000	6	100µV	200m - 100	200 - 600	200µ - 10	—	200 - 2M	—	—		—	—	—	—	✓		✓	✓					5.4 x 2.7 x 1.2	355207CE	16.75	15.92
119212CE	Jameco JE110	2000	6	100µV	200m - 1000	200 - 750	200µ - 10	—	200 - 2M	—	—		—	—	—	—	✓		✓	✓					4.8 x 2.6 x 1.0	119212CE	19.95	15.96
318781CE	BenchPro BP-1562	2000	6	100µV	200m - 600	200 - 750	200µ - 10	—	200 - 2M	—	—		—	—	—	—	✓		✓	✓					5.4 x 2.7 x 1.2	318781CE	9.95	9.45
220759CE	Mastech MAS830L	2000	7	100µV	200m - 600	200 - 600	200µ - 10	—	200 - 2M	—	—		—	—	—	✓		✓	✓					5.7 x 3.0 x 1.4	220759CE	13.95	13.24	
220741CE	Mastech MAS838	2000	8	100µV	200m - 600	200 - 600	2m - 10	—	200 - 2M	—	—		—	-20 to 1000	—	✓		✓	✓					5.7 x 3.0 x 1.4	220741CE	19.95	15.96	
27116CE	BenchPro BP-1206	2000	8	100µV	200m - 1000	200m - 700	20µ - 10	20µ - 10	200 - 20M	—	—		—	—	—	✓		✓	✓					6.8 x 3.5 x 1.4	27116CE	39.95	35.95	
197958CE	Extech MV110	2000	8	100µV	200m - 1000	200m - 750	20µ - 10	20µ - 10	200 - 200M	—	—		—	—	—	✓		✓	✓					7.3 x 3.5 x 1.3	197958CE	36.95	35.19	
27115CE	Metex M3800	2000	8	100µV	200m - 1000	200m - 700	20µ - 20	20µ - 20	200 - 20M	—	—		—	—	—	✓		✓	✓					6.8 x 3.5 x 1.4	27115CE	39.95	35.95	
220783CE	M9704	2000	8	100µV	200m - 600	200m - 600	2m - 200m	2m - 200	200 - 20M	2nF - 20µF	—		20K	-20 to 1000	—	✓		✓	✓					7.6 x 4.0 x 1.5	220783CE	34.95	31.46	
220775CE	Mastech MY64	2000	11	100µV	200m - 1000	200m - 700	2m - 10	2m - 10	200 - 200M	2n - 20µ	—	↔	2k - 20k	-20 to 1000	—	✓		✓	✓					7.4 x 3.6 x 1.3	220775CE	38.79	34.91	
177480CE	AEEC 2890	2000	11	100µV	200m - 1000	2 - 700	2m - 10	200m - 10	200 - 20M	2n - 20µ	—		20k	-20 to 1000	—	✓		✓	✓					8.0 x 4.0 x 2.0	177480CE	52.49	47.24	
182035CE	Fluke 73-III	3200	9	100µV	320m - 600	320m - 600	320m - 10	320m - 10	320 - 32M	—	—		—	—	—	✓		✓		✓		✓		6.6 x 3.0 x 1.1	182035CE	164.95	159.95	
220767CE	Mastech MY68	3260	12	100µV	326m - 1000	3.26 - 700	326µ - 10	326µ - 10	326 - 32.6M	326n - 32.6µ	—		32.6k - 150k	—	—	✓		✓	✓	✓	✓			7.4 x 3.6 x 1.3	220767CE	35.95	32.36	
216514CE	Metex ME-31	4000	10	100µV	400m - 1000	400m - 750	4m - 20	4m - 20	400 - 4M	—	—		—	—	—	✓		✓		✓	✓	✓		7.3 x 3.3 x 1.5	216514CE	56.95	54.15	
211650CE	Extech MN26	4000	11	100µV	400m - 600	400m - 600	400µ - 10	400µ - 10	400 - 40M	4n - 200µ	—		10 - 10M	0 to 760	0 to 1400	✓		✓		✓				4.8 x 2.4 x 1.6	211650CE	39.95	37.95	
117373CE	BenchPro BP-1949	4000	11	100µV	400m - 400	4 - 400	400µ - 10	400µ - 10	400 - 4M	50n - 100µ	—		5 - 50k	-20 to 1000	—	✓		✓		✓		✓		7.7 x 3.6 x 1.6	117373CE	89.95	71.96	
137462CE	BenchPro BP-1737	4000	11	100µV	400m - 400	4 - 400	400µ - 10	400µ - 10	400 - 4M	50n - 100µ	—		5 - 50k	-20 to 1000	—	✓		✓		✓	✓	✓		7.7 x 3.6 x 1.6	137462CE	119.95	113.95	
117372CE	Metex M3850D	4000	14	100µV	400m - 1000	400m - 750	400µ - 20	400µ - 20	400 - 40M	4n - 400µ	—	↔	4k - 40M	-40 to 1200	—	✓		✓	✓	✓	✓	✓		7.2 x 3.3 x 1.8	117372CE	104.95	99.69	
215589CE	Metex M3890D	4000	15	100µV	400m - 1000	4 - 750	400µ - 20	400µ - 20	400 - 40M	4n - 200µ	—		4k - 40M	-40 to 1200	-40 to 2192	✓	✓	✓	✓	✓	✓	✓		7.8 x 3.5 x 1.7	215589CE	99.95	94.99	
137461CE	Metex M3860D	4000	16	100µV	400m - 1000	400m - 750	40m - 20	40m - 20	400 - 40M	4n - 400µ	40m - 400m		4k - 40M	-40 to 1200	—	✓		✓	✓	✓	✓	✓	✓	7.2 x 3.3 x 1.8	137461CE	149.95	134.99	

DMMs continued on pages 244 – 245.

DMMs continued on pages 244 – 245.

- AEEC
- AEEC 2890
- 2000 count
 - 11 functions
 - Temperature
 - Frequency
 - Tilttable display



P/N 177480CE
\$52.49

- FLUKE
- Fluke 73-III
- 3200 count
 - 9 functions
 - Autorange
 - Frequency
 - Analog bargraph



P/N 182035CE
\$164.95

- Mastech
- Mastech MY68
- 3260 count
 - 12 functions
 - Autorange
 - Analog bargraph



P/N 220767CE
\$35.95

- METEX
- Metex ME-31
- 4000 count
 - 10 functions/RS232
 - Autorange
 - Analog bargraph



P/N 216514CE
\$56.95

- EXTECH
- Extech MN26
- 4000 count
 - 11 functions
 - Autorange
 - Temperature
 - Frequency



Pocket Sized

P/N 211650CE
\$39.95

- JAMECO BenchPro
- BP-1949
- 4000 count
 - 12 functions/RS-232
 - Autorange
 - Temperature
 - Frequency



A Jameco EXCLUSIVE

P/N 117373CE
\$89.95

- JAMECO BenchPro
- BP-1737
- 4000 count
 - 12 functions/RS-232
 - Autorange
 - Temperature
 - Frequency



True RMS

A Jameco EXCLUSIVE

P/N 137462CE
\$119.95

- METEX
- Metex M3850D
- 4000 count
 - 14 functions/RS-232
 - Autorange
 - Temperature
 - Frequency



Analog Bargraph

P/N 117372CE
\$104.95

- METEX
- Metex M3890D
- 4000 count
 - 15 functions/USB
 - Autorange
 - Temperature
 - Frequency



Triple Display

P/N 215589CE
\$99.95

- METEX
- Metex M3860D
- 4000 count
 - 16 functions/RS232
 - Autorange
 - Temperature
 - Frequency



True RMS

Dual Display

P/N 137461CE
\$149.95

JAMECO

BenchPro

✓ Professional Grade
✓ Consistent Quality
✓ Awesome Prices
✓ Backed by Jameco

Color Code Legend

New Sale Lower\$ QtySave

JAMECO

BenchPro

✓ Professional Grade
✓ Consistent Quality
✓ Awesome Prices
✓ Backed by Jameco

FLUKE

- Fluke 110**
- 6000 count
 - 10 functions
 - Autorange
 - Min/Max/Avg



Sizes shown are for relative comparisons.

True RMS

P/N 190967CE P/N 190975CE P/N 185527CE
\$117.95 \$138.95 \$148.95

- Fluke 111**
- 6000 count
 - 12 functions
 - Autorange
 - Current

- Fluke 112**
- 6000 count
 - 12 functions
 - Autorange
 - Backlit display
 - Current

FLUKE

- Fluke 175**
- 6000 count
 - 12 functions
 - Autorange
 - Frequency



True RMS

P/N 192655CE
\$198.95

FLUKE

- Fluke 177**
- 6000 count
 - 12 functions
 - Autorange
 - Frequency



True RMS

P/N 192663CE
\$208.95

FLUKE

- Fluke 179**
- 6000 count
 - 13 functions
 - Autorange
 - Temperature
 - Frequency



True RMS

P/N 185535CE
\$218.95

WAVETEK
Meterman

- Wavetek/MM 37XR**
- 10,000 count
 - 14 functions
 - Inductance
 - Autorange
 - dB display



True RMS

P/N 222527CE
\$129.49

WAVETEK
Meterman

- Wavetek/MM 38XR**
- 10,000 count
 - 14 functions/RS232
 - Autorange
 - Temperature
 - Frequency



True RMS

P/N 222543CE
\$149.49

MASTECH

- Mastech MY65**
- 20,000 count
 - 8 functions
 - Capacitance



P/N 136590CE
\$73.49

JAMECO BenchPro

- BP-1415**
- 20,000 count
 - 8 functions
 - Capacitance

A Jameco EXCLUSIVE



P/N 318764CE
\$73.49

METEX

- Metex M4640A**
- 20,000 count
 - 12 functions
 - 4 displays
 - Frequency



P/N 144872CE
\$132.95

FLUKE

- Fluke 187**
- 50,000 count
 - 11 functions
 - Autorange
 - Temperature
 - Frequency



True RMS

P/N 222375CE
\$386.95

FLUKE

- Fluke 189**
- 50,000 count
 - 13 functions
 - Data logging
 - Temperature
 - Frequency



True RMS

P/N 182043CE
\$398.95

DMMs continued from pages 242 – 243.

DMMs continued from pages 242 – 243.				Basic Measurement Functions											Test Functions				Special Functions				DMMs continued from pages 242 – 243.				
Jameco Part No.	Product No.	Display Count	No. of Functions	Resolution (max DC)	DC Voltage Ranges (V)	AC Voltage Ranges (V)	DC Current Ranges (A)	AC Current Ranges (A)	Resistance Ranges (Ω)	Capacitance Ranges (F)	Inductance Ranges (H)		Frequency Ranges (Hz)	Temperature Range		Diode Test	Logic Test	Continuity Test	Transistor hFE Test	Autorange	Analog Bargraph	RS-232 PC Interface	True RMS	Size (H"xW"xD")	Jameco Part No.	Pricing	
														°C	°F											1	5
190967CE	Fluke 110	6000	10	1mV	6 - 600	6 - 600	—	—	600 - 40M	1000n - 10,000μ	—		99.99 - 50k	—	—	✓		✓		✓	✓		✓	11.8 x 7.0 x 3.0	190967CE	\$117.95	\$114.95
190975CE	Fluke 111	6000	12	1mV	6 - 600	6 - 600	6 - 10	10	600 - 40M	1000n - 10,000μ	—		99.99 - 50k	—	—	✓		✓		✓	✓		✓	11.8 x 7.0 x 3.0	190975CE	138.95	135.95
185527CE	Fluke 112	6000	12	1mV	6 - 600	6 - 600	6 - 10	10	600 - 40M	1000n - 10,000μ	—	↔	99.99 - 50k	—	—	✓		✓		✓	✓		✓	11.8 x 7.0 x 3.0	185527CE	148.95	144.95
192655CE	Fluke 175*	6000	12	100μV	600m - 1000	600m - 1000	60m - 10	60m - 10	600 - 50M	1000n - 9999μ	—		99.99 - 99.99k	—	—	✓		✓		✓	✓		✓	7.3 x 3.5 x 1.7	192655CE	198.95	194.95
192663CE	Fluke 177*†	6000	12	100μV	600m - 1000	600m - 1000	60m - 10	60m - 10	600 - 50M	1000n - 9999μ	—		99.99 - 99.99k	—	—	✓		✓		✓	✓		✓	7.3 x 3.5 x 1.7	192663CE	208.95	204.95
185535CE	Fluke 179*†	6000	13	100μV	600m - 1000	600m - 1000	60m - 10	60m - 10	600 - 50M	1000n - 9999μ	—		99.99 - 99.99k	-40 to 400	-40 to 752	✓		✓		✓	✓		✓	7.3 x 3.5 x 1.7	185535CE	218.95	212.95
222527CE	Wavetek/MM 37XR	10,000	14	100μV	1000m - 1000	1000m - 750	100m - 10	100m - 10	1000 - 40M	40n - 400μ	4m - 40	↔	100 - 10M	—	—	✓	✓	✓		✓	✓		✓	7.8 x 3.6 x 2.4	222527CE	129.49	122.99
222543CE	Wavetek/MM 38XR	10,000	14	100μV	1000m - 1000	1000m - 750	100m - 10	100m - 10	1000 - 40M	40n - 400μ	—	↔	100 - 10M	-20 to 1300	-4 to 2372	✓		✓		✓	✓	✓	✓	7.8 x 3.6 x 2.4	222543CE	149.49	141.99
136590CE	Mastech MY65	20,000	8	10μV	200m - 1000	2 - 700	2m - 10	2m - 10	200 - 200M	200p - 20μ	—		—	—	—			✓	✓				✓	7.4 x 3.6 x 1.2	136590CE	73.49	57.25
318764CE	BenchPro BP-1415	20,000	8	10μV	200m - 1000	2 - 700	2m - 20	2m - 20	200 - 200M	2000p - 20μ	—		20k	—	—	✓		✓	✓				✓	7.4 x 3.6 x 1.2	318764CE	73.49	66.15
144872CE	Metex M4640A	20,000	12	10μV	200m - 1000	200m - 750	2m - 20	2m - 20	200 - 20M	20n - 200μ	—		20k - 2M	—	—	✓		✓	✓		✓		✓	7.5 x 3.3 x 1.5	144872CE	132.95	126.35
222375CE	Fluke 187*	50,000	11	1μV	50m - 1000V	50m - 1000	500m - 10	500m - 10	500 - 500M	1n - 50μ	—	↔	500 - 999.99k	-200 to 1350	-328 to 2462	✓		✓		✓	✓		✓	8.0 x 3.9 x 2.0	222375CE	386.95	379.95
182043CE	Fluke 189*	50,000	13	1μV	50m - 1000V	50m - 1000	500m - 10	500m - 10	500 - 500M	1n - 50μ	—		500 - 999.99k	-200 to 1350	-328 to 2462	✓		✓		✓	✓		✓	8.0 x 3.9 x 2.0	182043CE	398.95	389.95
214308CE	Fluke 80BK temperature probe for Fluke 175/177/179/187/189 (Jameco P/Ns 192655CE /192663CE /185535CE /222375CE /182043CE respectively)												Fluke 80BK temperature probe for Fluke 175/177/179/187/189 (Jameco P/Ns 192655CE /192663CE /185535CE /222375CE /182043CE respectively)												214308CE	19.95	19.49

* Temperature probe available — see bottom of chart † with backlight

2000-Count Multimeter w/
Digital & Analog Pointer Display,
Frequency & Temperature
Measurements

- 3½-digit LCD display (0.7" digit height)

- with analog pointer
- Resolution: 100μV maximum

- **DC/AC voltage ranges:**

- 200mV – 600V

- **DC/AC current ranges:**

- 2mA – 200mA

- **Resistance ranges:**

- 200Ω – 20MΩ

- **Capacitance ranges:**

- 2nF – 20μF

- **Frequency ranges:** up to

- 20kHz

- **Temperature ranges:** -20°C to +1000°C

- Diode, continuity, and transistor hFE test

- Zero adjustment knob for analog pointer display

- Built-in test leads

- Size: 7.6"H x 4.0"W x 1.5"D

Includes: K type thermocouple



NEW

Part No. Product No. 1 10 25
220783CE M9704 **\$34.95 \$31.46 \$28.31**

Pocket Analog Multimeter

- **DC/AC voltage ranges:** 0 – 500V
- **DC current ranges:** 0 – 250mA
- **Resistance ranges:** 0 – 1kΩ
- Size: 2.3"W x 1.2"D x 3.6"H

Includes: Insulated probes

Requires: 1.5V battery

(recommend P/N 198707CE, pg 206)

Part No.	Description	1	10	50
206287CE	Pocket multimeter	\$7.95	\$6.76	\$5.07



SALE

High Voltage AC/DC Test Probe

- Maximum voltages: DC: 40kV, AC: 40kV peak, 28kVrms
- Accuracy: DC: ±1.5%, AC: ±5%
- 10MΩ meter input impedance required
- Input/output impedance: 1,000MΩ/1.1MΩ
- Cable length: 39"
- Probe length: 14"
- Weight: 0.8 lbs.



Part No. Description 1 10
132290CE High volt. test probe **\$79.95 \$72.95**

Digital LCR Meter

- 3½-digit display (0.5" digit height)
- **Inductance ranges:** 200μH – 200H
- **Capacitance ranges:** 200pF – 2000μF
- **Resistance ranges:** 2mΩ – 20MΩ
- Dissipation factor measurement
- Size: 3.3"W x 1.4"D x 6.7"H
- Weight: 1.1 lbs.
- One-year warranty

Includes: Test leads and 9V battery

Part No.	Description	1	10	25
127538CE	LCR meter	\$149.95	\$127.46	\$96.01



MASTECH

15A AC Line Separator for
AC Current Clamp Meters

- Max. overload: 250VAC@15A
- X1 and X10 clamp areas
- Socket compatible with US & European connectors
- Convenient 0.1" dia. tip test points for neutral/earth/line

Quantity SAVE



Part No. Description 1 10 25
162325CE 3-prong US-type plug **\$11.95 \$10.16 (\$7.62)**

Mini DC/AC 2000-Count
Clamp Meter/Multimeter

- Bright 1/2" LCD
- DATA HOLD
- 0.5" digit height
- Compatible with P/N 162325CE, below
- Size: 7.1"L x 1.9"W x 1.4"H
- Weight: 0.9 lbs.

Requires: 9V battery

not included (P/N 151095CE, pg 206)

Includes: Test leads, manual and case

Part No.	Description	1	10
115756CE	Mini DC/AC clamp meter	\$119.95	\$107.95



ACA*	20A-200A	±1.2% +5d
DCA	200A	±1.2% +5d
ACV*	500V	±1.0% +2d
DCV	200V	±0.8% +1d
Resistance	200Ω	±1.2% +1d
*Frequency Response	40-400Hz	
Zero Adjust	External knob for DCA	

50mV/50A Current Shunt

- Current range: 0 to 50A
- Accuracy: 0.8% ±0.2mV
- Output ratio: 1mV/1A
- Max. current: 100A



Part No. Description 1 10 25
162309CE Current shunt **\$24.95 \$22.49 \$19.95**

Color Code Legend

New Sale Lower\$ QtySave

EXTECH

400A AC/DC Clamp Meters/Multimeters

- Auto ranging with auto power-off
- Continuity beeper and diode test
- Data hold freezes current reading on

JAMECO
BenchPro

✓ Professional Grade
✓ Consistent Quality
✓ Awesome Prices
✓ Backed by Jameco

Color Code Legend

New Sale Lower\$ QtySave

JAMECO
BenchPro

✓ Professional Grade
✓ Consistent Quality
✓ Awesome Prices
✓ Backed by Jameco

FLUKE

- Fluke 110
- 6000 count
 - 10 functions
 - Autorange
 - Min/Max/Avg



Sizes shown are for relative comparisons.

- Fluke 111
- 6000 count
 - 12 functions
 - Autorange
 - Current

- Fluke 112
- 6000 count
 - 12 functions
 - Autorange
 - Backlit display
 - Current

P/N 190967CE P/N 190975CE P/N 185527CE
\$117.95 \$138.95 \$148.95

FLUKE

- Fluke 175
- 6000 count
 - 12 functions
 - Autorange
 - Frequency



P/N 192655CE
\$198.95

FLUKE

- Fluke 177
- 6000 count
 - 12 functions
 - Autorange
 - Frequency



P/N 192663CE
\$208.95

FLUKE

- Fluke 179
- 6000 count
 - 13 functions
 - Autorange
 - Temperature
 - Frequency



P/N 185535CE
\$218.95

WAVETEK
Meterman

- Wavetek/MM 37XR
- 10,000 count
 - 14 functions
 - Inductance
 - Autorange
 - dB display



P/N 222527CE
\$129.49

WAVETEK
Meterman

- Wavetek/MM 38XR
- 10,000 count
 - 14 functions/RS232
 - Autorange
 - Temperature
 - Frequency



P/N 222543CE
\$149.49

MASTECH

- Mastech MY65
- 20,000 count
 - 8 functions
 - Capacitance



P/N 136590CE
\$73.49

JAMECO BenchPro

- BP-1415
- 20,000 count
 - 8 functions
 - Capacitance



P/N 318764CE
\$73.49

METEX

- Metex M4640A
- 20,000 count
 - 12 functions
 - 4 displays
 - Frequency



P/N 144872CE
\$132.95

FLUKE

- Fluke 187
- 50,000 count
 - 11 functions
 - Autorange
 - Temperature
 - Frequency



P/N 222375CE
\$386.95

FLUKE

- Fluke 189
- 50,000 count
 - 13 functions
 - Data logging
 - Temperature
 - Frequency



Sizes shown are for relative comparisons.

P/N 182043CE
\$398.95

DMMs continued from pages 242 – 243.

DMMs continued from pages 242 – 243.				Basic Measurement Functions												Test Functions				Special Functions				DMMs continued from pages 242 – 243.			
Jameco Part No.	Product No.	Display Count	No. of Functions	Resolution (max DC)	DC Voltage Ranges (V)	AC Voltage Ranges (V)	DC Current Ranges (A)	AC Current Ranges (A)	Resistance Ranges (Ω)	Capacitance Ranges (F)	Inductance Ranges (H)		Frequency Ranges (Hz)	Temperature Range		Diode Test	Logic Test	Continuity Test	Transistor hFE Test	Autorange	Analog Bargraph	RS-232 PC Interface	True RMS	Size (H"xW"xD")	Jameco Part No.	Pricing	
														°C	°F											1	5
190967CE	Fluke 110	6000	10	1mV	6 - 600	6 - 600	—	—	600 - 40M	1000n - 10,000μ	—		99.99 - 50k	—	—	✓		✓		✓	✓		✓	11.8 x 7.0 x 3.0	190967CE	\$117.95	\$114.95
190975CE	Fluke 111	6000	12	1mV	6 - 600	6 - 600	6 - 10	10	600 - 40M	1000n - 10,000μ	—		99.99 - 50k	—	—	✓		✓		✓	✓		✓	11.8 x 7.0 x 3.0	190975CE	138.95	135.95
185527CE	Fluke 112	6000	12	1mV	6 - 600	6 - 600	6 - 10	10	600 - 40M	1000n - 10,000μ	—	↔	99.99 - 50k	—	—	✓		✓		✓	✓		✓	11.8 x 7.0 x 3.0	185527CE	148.95	144.95
192655CE	Fluke 175*	6000	12	100μV	600m - 1000	600m - 1000	60m - 10	60m - 10	600 - 50M	1000n - 9999μ	—		99.99 - 99.99k	—	—	✓		✓		✓	✓		✓	7.3 x 3.5 x 1.7	192655CE	198.95	194.95
192663CE	Fluke 177*†	6000	12	100μV	600m - 1000	600m - 1000	60m - 10	60m - 10	600 - 50M	1000n - 9999μ	—		99.99 - 99.99k	—	—	✓		✓		✓	✓		✓	7.3 x 3.5 x 1.7	192663CE	208.95	204.95
185535CE	Fluke 179*†	6000	13	100μV	600m - 1000	600m - 1000	60m - 10	60m - 10	600 - 50M	1000n - 9999μ	—		99.99 - 99.99k	-40 to 400	-40 to 752	✓		✓		✓	✓		✓	7.3 x 3.5 x 1.7	185535CE	218.95	212.95
222527CE	Wavetek/MM 37XR	10,000	14	100μV	1000m - 1000	1000m - 750	100m - 10	100m - 10	1000 - 40M	40n - 400μ	4m - 40	↔	100 - 10M	—	—	✓	✓	✓		✓	✓		✓	7.8 x 3.6 x 2.4	222527CE	129.49	122.99
222543CE	Wavetek/MM 38XR	10,000	14	100μV	1000m - 1000	1000m - 750	100m - 10	100m - 10	1000 - 40M	40n - 400μ	—	↔	100 - 10M	-20 to 1300	-4 to 2372	✓		✓		✓	✓	✓	✓	7.8 x 3.6 x 2.4	222543CE	149.49	141.99
136590CE	Mastech MY65	20,000	8	10μV	200m - 1000	2 - 700	2m - 10	2m - 10	200 - 200M	200p - 20μ	—		—	—	—			✓	✓					7.4 x 3.6 x 1.2	136590CE	73.49	57.25
318764CE	BenchPro BP-1415	20,000	8	10μV	200m - 1000	2 - 700	2m - 20	2m - 20	200 - 200M	2000p - 20μ	—		20k	—	—	✓		✓	✓					7.4 x 3.6 x 1.2	318764CE	73.49	66.15
144872CE	Metex M4640A	20,000	12	10μV	200m - 1000	200m - 750	2m - 20	2m - 20	200 - 20M	20n - 200μ	—		20k - 2M	—	—	✓		✓	✓				✓	7.5 x 3.3 x 1.5	144872CE	132.95	126.35
222375CE	Fluke 187*	50,000	11	1μV	50m - 1000V	50m - 1000	500m - 10	500m - 10	500 - 500M	1n - 50μ	—	↔	500 - 999.99k	-200 to 1350	-328 to 2462	✓		✓		✓	✓		✓	8.0 x 3.9 x 2.0	222375CE	386.95	379.95
182043CE	Fluke 189*	50,000	13	1μV	50m - 1000V	50m - 1000	500m - 10	500m - 10	500 - 500M	1n - 50μ	—		500 - 999.99k	-200 to 1350	-328 to 2462	✓		✓		✓	✓		✓	8.0 x 3.9 x 2.0	182043CE	398.95	389.95
214308CE	Fluke 80BK temperature probe for Fluke 175/177/179/187/189 (Jameco P/Ns 192655CE /192663CE /185535CE /222375CE /182043CE respectively)												Fluke 80BK temperature probe for Fluke 175/177/179/187/189 (Jameco P/Ns 192655CE /192663CE /185535CE /222375CE /182043CE respectively)												214308CE	19.95	19.49

* Temperature probe available — see bottom of chart † with backlight

2000-Count Multimeter w/ Digital & Analog Pointer Display, Frequency & Temperature Measurements

- 3½-digit LCD display (0.7" digit height)

- with analog pointer
- Resolution: 100μV maximum

- DC/AC voltage ranges:

- 200mV – 600V

- DC/AC current ranges:

- 2mA – 200mA

- Resistance ranges:

- 200Ω – 20MΩ

- Capacitance ranges:

- 2nF – 20μF

- Frequency ranges: up to

- 20kHz

- Temperature ranges: -20°C to +1000°C

- Diode, continuity, and transistor hFE test

- Zero adjustment knob for analog pointer display

- Built-in test leads

- Size: 7.6"H x 4.0"W x 1.5"D

Includes: K type thermocouple



NEW

Part No. Product No. 1 10 25
220783CE M9704 \$34.95 \$31.46 \$28.31

Pocket Analog Multimeter

- DC/AC voltage ranges: 0 – 500V
- DC current ranges: 0 – 250mA
- Resistance ranges: 0 – 1kΩ
- Size: 2.3"W x 1.2"D x 3.6"H

Includes: Insulated probes

Requires: 1.5V battery
(recommend P/N 198707CE, pg 206)



SALE

Part No. Description 1 10 50
206287CE Pocket multimeter \$7.95 \$6.76 \$5.07

High Voltage AC/DC Test Probe

- Maximum voltages: DC: 40kV, AC: 40kV peak, 28kVrms
- Accuracy: DC: ±1.5%, AC: ±5%
- 10MΩ meter input impedance required
- Input/output impedance: 1,000MΩ/1.1MΩ
- Cable length: 39"
- Probe length: 14"
- Weight: 0.8 lbs.



Part No. Description 1 10
132290CE High volt. test probe \$79.95 \$72.95

Digital LCR Meter

- 3½-digit display (0.5" digit height)
- Inductance ranges: 200μH – 200H
- Capacitance ranges: 200pF – 2000μF
- Resistance ranges: 2mΩ – 20MΩ
- Dissipation factor measurement
- Size: 3.3"W x 1.4"D x 6.7"H
- Weight: 1.1 lbs.
- One-year warranty

Includes: Test leads and 9V battery



Part No. Description 1 10 25
127538CE LCR meter \$149.95 \$127.46 \$96.01

MASTECH

15A AC Line Separator for AC Current Clamp Meters

- Max. overload: 250VAC@15A
- X1 and X10 clamp areas
- Socket compatible with US & European connectors
- Convenient 0.1" dia. tip test points for neutral/earth/line

Quantity SAVE



Part No. Description 1 10 25
162325CE 3-prong US-type plug \$11.95 \$10.16 \$7.62

Mini DC/AC 2000-Count Clamp Meter/Multimeter

- Bright 1/2" LCD
- DATA HOLD
- 0.5" digit height
- Compatible with P/N 162325CE, below
- Size: 7.1"L x 1.9"W x 1.4"H
- Weight: 0.9 lbs.

Requires: 9V battery not included (P/N 151095CE, pg 206)

Includes: Test leads, manual and case



ACA*	20A-200A	±1.2% +5d
DCA	200A	±1.2% +5d
ACV*	500V	±1.0% +2d
DCV	200V	±0.8% +1d
Resistance	200Ω	±1.2% +1d
*Frequency Response	40-400Hz	
Zero Adjust	External knob for DCA	

Part No. Description 1 10
115756CE Mini DC/AC clamp meter \$119.95 \$107.95

50mV/50A Current Shunt

- Current range: 0 to 50A
- Accuracy: 0.8% ±0.2mV
- Output ratio: 1mV/1A
- Max. current: 100A



Part No. Description 1 10 25
162309CE Current shunt \$24.95 \$22.49 \$19.95

Color Code Legend

New Sale Lower\$ QtySave

EXTECH

400A AC/DC Clamp Meters/Multimeters

- Auto ranging with auto power-off
- Continuity beeper and diode test
- Data hold freezes current reading on display
- Over range and low battery indicators
- Size: 7.9"L x 2.0"W x 1.4"D

Includes: Test leads, case, and 2 AAA batteries

373991CE (MA200):

- 2000 count LCD display
- Measure AC current, DCV, ACV, and resistance
- AC current ranges: 2A–400A; 0.001A max. resolution
- Basic current accuracy: ±2.5%
- DC/AC voltage ranges: 200mV – 600V; 0.1mV max. resolution
- Basic voltage accuracy: AC: ±1.5%; DC: ±1.2%
- Resistance: 200Ω – 20MΩ; 0.1Ω max. resolution

374070CE (MA220):

- 4000 count LCD display
- Measures AC/DC current, DCV, ACV, resistance, capacitance, frequency, temperature, and duty cycle
- AC/DC current ranges: 40A–400A; 0.01A max. resolution
- DC/AC volt. ranges: 400mV–600V; 0.1mV max. resolution
- Resistance: 400Ω–40MΩ; 0.1Ω resolution
- Frequency ranges: 5Hz–150kHz; 0.001Hz max. resolution
- Capacitance ranges: 40nF–1000μF; 0.01nF max. resolution
- Duty cycle: 0.5%–0.99%; 0.1% max. resolution
- Temp. ranges: -58° to +1830°F (-50° to +1000°C); 1° max. resolution
- Basic current accuracy: AC: ±3.0%; DC: ±2.5%
- Basic voltage accuracy: AC: ±2.0



Passive-Component Digital LCR Meter

- 4½-digit backlit LCD display
- Measures L, C, and R with secondary parameter Q, D or R; both are displayed
- Inductance ranges: 2000.0uH to 2000.0H
- Capacitance ranges: 2000.0pF to 2000.0µF
- Resistance ranges: 20.000Ω to 20.000MΩ
- Selectable parallel or series equivalent circuit
- Set HI/LO limits, absolute or percentage
- Bidirectional RS-232 port with optional software
- Max./Min./Avg. recording with auto power off
- Accuracy of 0.7% for L & C, 0.5% for R
- Test frequencies of 120Hz and 1kHz
- Dissipation Factor (D) reading: 0 to 0.9999
- Quality (Q) reading: 0 to 9999
- Size: 3.6"W x 2.1"D x 7.6"H • Weight: 0.8 lbs.

Includes: Test leads, alligator clips, 9V battery & holster

Part No.	Description	1	10
198678CE	LCR Meter	\$178.95	\$160.95
189237CE	9VDC @ 300mA adapter	4.65	3.57



2000-Count Multimeters

- Resolution: 100µV maximum
- DC voltage ranges: 200mV – 1000V
- Size: 7.5"W x 9.6"D x 2.5"H
- Weight: 2.6 lbs.
- 160830CE: 3 1/2-Digit
 - DC/AC current ranges: 20µA – 10A
 - AC voltage ranges: 200mV – 700V
 - Resistance ranges: 200Ω – 20MΩ
 - Conductance ranges: 2µS – 200nS
- 203801CE: 3 1/2-Digit
 - DC/AC current ranges: 20µA – 2A
 - AC voltage ranges: 200mV – 700V
 - Resistance ranges: 200Ω – 20MΩ
 - Conductance ranges: 2µS – 200nS
- 421542CE: 3 1/2-Digit
 - DC/AC current ranges: 200µA – 2A
 - AC voltage ranges: 200mV – 750V
 - Resistance ranges: 200Ω – 20MΩ
 - Conductance ranges: 2mS – 200nS
 - Frequency ranges: 20Hz – 50kHz



FLUKE

NEW

◆ Refurbished – Backed by Jameco

Part No.	Product No.	Price
160830CE	8010A	\$199.95
203801CE	8012A ◆	199.95
421542CE	8050A ◆	219.95

20,000-Count True-RMS Benchtop Multimeter

- 4½-digit green LCD
- DC accuracy: 0.05%
- Full overload protection
- Resolution: 10µV max.
- DC voltage ranges: 200mV – 1000V
- AC voltage ranges: 200mV – 750V
- DC/AC current ranges: 2mA – 10A
- Resistance ranges: 200Ω – 20MΩ
- Frequency measurement up to 200kHz
- Continuity check with beeper
- Data hold, diode check, transistor h_{FE} measurement available
- Size: 9.9"L x 9.8"W x 3.6"H • Weight: 6.1 lbs.
- One-year manufacturer's warranty



EZ DIGITAL

Part No.	Product No.	1	10	25
132564CE	DM441	\$269.95	\$256.49	\$243.49

20,000-Count Benchtop Multimeter w/ RS-232, Analog Bar & 4 Displays

- Automatic polarity indicator
- 1-2 readings/second
- DC accuracy: 0.1% ±5 digits
- 10 reading storage and compare
- Resolution: 10µV max.
- DC voltage ranges: 200mV – 1000V
- AC voltage ranges: 200mV – 750V
- DC/AC current ranges: 2mA – 20A
- Resistance ranges: 200Ω – 20MΩ
- Frequency ranges: 20kHz – 20MHz
- Min., max., average, relative functions
- Logic, diode, transistor h_{FE} and continuity test
- Size: 11.2"L x 8.2"W x 3.2"H • Weight: 7.5 lbs.



METEX®

Includes: Manual, power cable, probes and software

Part No.	Product No.	1	10
166852CE	MXD4660A	\$249.95	\$224.95

Handheld 2MHz Digital Oscilloscope with 3½-Digit Multimeter

- 10MHz for repetitive signals; 2MHz for single shot events
- Input impedance: 1MΩ/20pF
- Max. input voltage: 100V peak (AC + DC)
- Input coupling: DC, AC, and GND (GND for auto zero reference)
- LCD graphics display: 64 x 128 pixels
- Vertical resolution: 8-bit
- Timebase range: 0.2µs to 1 hr./div
- Input sensitivity: 5mV to 20V/div
- Linearity: ±1 bit
- Screen hold
- Trigger mode: run, normal, once, and ± slope
- True RMS and dB measurements
- High contrast LCD display with 3.3" viewing angle
- Recommend 9VDC @ 300mA power supply (133891CE, pg 198)
- Weight: 1.0 lb.
- Batteries not included (recommend 151087CE, pg 206)



velleman

Includes: DVM850 multimeter (below) and insulated BNC-to-alligator clip measurement probes

6-Function Multimeter:

- 3½ digit w backlight, 2000 count
- Data hold function
- DC voltage ranges: 200mV to 100V
- AC voltage ranges: 200/600
- DC current ranges: 200µA to 10A
- Resistance ranges: 200Ω to 2MΩ
- Diode, transistor and continuity test
- Power supply: 9V battery (included)
- Size: 2.7"W x 1.2"D x 5.4"H



355207CE (DVM850) can be purchased separately, pg 243

Free DMM!

Part No.	Description	1	5
355485CE	2MHz Oscilloscope w/ DMM (HPS10 + DVM850)	\$194.95	\$185.25

Handheld 5MHz Digital Oscilloscope w/ True-RMS Multimeter

- 5MHz bandwidth; 25MS/s sampling rate
- Auto power off
- RS-232 PC interface
- 160 x 160 pixel graphical display with backlight
- Vertical sensitivity: 10mV – 200V per div. (14 div.)
- Single channel with 1MΩ impedance
- 4000-count dual display with analog bargraph
- Resolution: 100uV maximum
- DC voltage ranges: 400mV to 1000V
- AC voltage ranges: 400mV to 700V
- DC/AC current ranges: 400mA to 20A
- Resistance ranges: 400Ω to 40MΩ
- Capacitance ranges: 40nF to 100µF
- Frequency ranges: 1Hz to 5MHz
- DBm, diode and continuity test
- Max/Min/Average w/ sampling rate & graphical plot
- Size: 4.2"W x 2.2" D x 8.3"H • Weight: 1.8 lbs.



EXTECH

FE

Includes: Protective holster, built-in stand, Windows® 95–XP compatible software, RS-232 cable, 6 AA batteries, fuse, test leads, and alligator clips

Part No.	Product No.	1	5
245930CE	381285	\$398.95	\$378.95

Detailed specifications for Oscilloscopes

www.Jameco.com/OScopes

4000-Count True-RMS Benchtop Multimeter with RS-232

- 9 functions, 32 ranges
- 3½-digit backlit LCD display with bargraph
- Auto/manual ranging
- True RMS AC volts and amps
- Resolution: 100µV maximum
- DC voltage ranges: 400mV – 1000V (0.3% accuracy)
- AC voltage ranges: 4V – 750V
- DC/AC current ranges: 4mA – 10A
- Resistance ranges: 400Ω – 40MΩ
- Capacitance ranges: 4nF – 40µF
- Frequency ranges: 100Hz – 600kHz
- Diode and continuity test • Delay hold mode
- Min., max., and relative hold function
- Input voltage: 9V battery or 90-132VAC/198-264VAC @ 50-60Hz
- Size: 9.0"W x 9.4"D x 3.3"H
- Weight: 3.3 lbs. • Two-year warranty



PROTEK

Includes: Manual, test leads, power adapter, 9V battery, RS-232 cable and software (98/ME/2000/XP compatible)

Part No.	Product No.	1	5
230586CE	B940	\$148.95	\$141.55

How to Test Almost Everything Electronic

TAB Publishing Filled with easy-to-follow instructions on how to troubleshoot all types of electronic systems. Learn the many uses of electronic tools, test equipment and troubleshooting techniques.

- Size: 7.4" x 9.3"
- Weight: 1.3 lbs.



Part No.	Description	1	10
126199CE	How to Test Everything	\$17.95	\$16.15

Handheld 5MHz Oscilloscope with 4000-Count Digital Multimeter

- 128 x 128 pixel graphic STN LCD
- E/L backlight
- PC interface via RS-232
- Memory and recall for 4 values
- Temperature measurement

Oscilloscope:

- DC-5MHz bandwidth; 20MS/sec. sampling rate; single channel
- Vertical axis: 3 steps ($\pm 0.5/5/50$ volts) with 4 divisions
- Horizontal axis: 16 steps (800ns/div to 26.2ms/div) in 8 divisions
- Trigger: auto and internal mode, slope and 5 trigger level selectable
- Text display for peak to peak, min./max. voltage and frequency



221962CE
METEX®

Digital Multimeter:

- 3½-digit with 43 segment bargraph
- Auto ranging; triple display for related reading; data and range hold; auto/min/max hold and relative offset
- DC voltage ranges: 400mV – 1000V
- AC voltage ranges: 4V – 750V
- DC/AC current ranges: 400µA – 400mA
- Resistance ranges: 400Ω – 40MΩ
- Frequency ranges: 4kHz – 4MHz
- Temperature ranges: -40°C – +1200°C
- Capacitance ranges: 4nF – 400µF
- Diode and continuity
- Size (unit): 3.4"W x 1.5"D x 8.0"H
- Weight: 3.9 lbs.

SALE

Includes: Manual, power adapter and test leads

Part No.	Description	1	5
221962CE	MS-1280	\$329.95	\$313.49
221938CE	RS-232 cable & software	19.95	15.25
221946CE	Scope probe	24.95	23.69
221954CE	Holster	3.95	3.75

Handheld 12MHz Digital Oscilloscope w/ 3½-Digit DMM

- 40MS/s for repetitive signals (10MS/s for single shot events)
- Input impedance: 1MΩ/20pF
- Maximum input voltage: 100Vpeak (AC+DC), 200V peak-peak (AC only)
- Input coupling: DC, AC and GND
- LCD graphics display: 112 x 92 pixels
- Vertical resolution: 8-bit ± 1 -bit linearity
- Timebase range: 32 steps; 50ns to 1hr./div
- Input sensitivity range: 12 steps; 5mV to 20V/div
- True RMS and dB measurements
- Trigger mode: run, normal, once, and roll modes
- High contrast LCD display
- Recommend 9VDC @ 300mA wall adapter (P/N 133891CE, pg 198)
- Batteries not included (recommend 151087CE, pg 206)
- Size: 8.0"H x 4.1"W x 1.4"D
- Weight: 1.0 lb.



355207CE
Velleman

Includes: DVM850 DMM & probes

Multimeter:

- 6-functions
- 3½-digit w/ backlight, 2000 count
- Data hold function
- DC voltage ranges: 200mV to 100V
- AC voltage ranges: 200/600V
- DC current ranges: 200µA to 10A
- Resistance ranges: 200Ω to 2MΩ
- Diode, transistor, and continuity test
- Power supply: 9V battery (included)
- Size: 2.7"W x 1.2"D x 5.4"H

355207CE
(DVM850)
can be purchased separately, pg 243

Free DMM!

Part No.	Description	1	5
373157CE	12MHz Oscilloscope with DMM (HPS40 + DVM850)	\$373.95	\$355.30

30MHz 2-Channel Digital Oscilloscope w/ 3½-Digit DMM

- 240MS/s for repetitive signals, 60MS/s for single shot events
- 2 channels
- Input impedance: 1MΩ / 20pF
- Maximum input voltage: 100Vpeak (AC+DC), 200Vp-p (AC only)
- Input coupling: DC, AC, and GND
- LCD graphic display: 128 x 192 pixels w/ LED backlight
- Vertical resolution: 8-bit ± 1 -bit linearity
- Timebase range: 35 steps; 25ns to 1hr./div
- Input sensitivity: 14 steps; 1mV to 20V/div
- Trigger mode: run, normal, once, and roll modes
- True RMS and dB measurements
- Recommend 9VDC @ 500mA regulated power supply (228890CE, pg 196)
- 6V @ 1800mA NiMH rechargeable battery pack included
- Size: 9.0"H x 5.9"W x 1.7"D
- Weight: 1.9 lbs.



Velleman

Includes: DVM850 DMM & probes

Multimeter:

- 6-functions
- 3½-digit w/ backlight, 2000 count
- Data hold function
- DC voltage ranges: 200mV to 100V
- AC voltage ranges: 200/600V
- DC current ranges: 200µA to 10A
- Resistance ranges: 200Ω to 20MΩ
- Diode, transistor, and continuity test
- Power supply: 9V battery (included)
- Size: 2.7"W x 1.2"D x 5.4"H



355207CE
(DVM850)
can be purchased separately, pg 243

Free DMM!

Part No.	Description	1	5
373165CE	30MHz Oscilloscope w/ DMM (APS230 + DVM850)	\$738.95	\$702.05

20MHz Industrial Scopemeter®

Digital Scope, 15-Function Digital Multimeter & Recorder

The Fluke 123 is the ideal choice for troubleshooting industrial machinery, instrumentation, control and power systems. It automatically recognizes signal patterns and sets up correct triggering, timing, and amplitude for stable displays.



NEW

Part No.	Description	Price
162747CE	Fluke 123-003 w/o software	\$899.95

www.Jameco.com



Our enhanced website offers more products. Find them quickly and order them easily!

Handheld 20MHz Digital Oscilloscope & Multimeter

- 4-in-1: digital oscilloscope, DMM, frequency counter & logic analyzer
- **Oscilloscope:** 2-channel input, 5mV-2V/div; DC-20MHz (-3dB); 50ns - 0.5µs/div; 20 MS/s sampling rate
- **Logic analyzer:** 8 inputs; 1.4V threshold level; 35VDC max. input; 50ns min. pulse width
- **Digital multimeter:** 3½-digit (max. 3999 counts); 40 segment analog bargraph; AC/DC voltage 400mV-600V; AC current 40µA-400mA; DC current 400µA-400mA; resistance 400Ω-40MΩ; continuity & diode testing
- **Frequency counter:** 5Hz-20MHz; 5 digit max.; autoranging; AC/DC/DC input coupling; ± 10 ppm accuracy; 35Vrms/42V-P/60VDC max. input
- Oscilloscope probes: Use P/N 22891CE or 216047CE, pg 249
- Battery required for portable use (see below)
- Size: 10.0"L x 5.0"W x 2.0"H
- Weight: 9.2 lbs.



162430CE

Includes: Manual, 5VDC @ 3A power supply, power cord, DMM test leads, holster and case

Part No.	Description	1	5
162430CE	20MHz digital scope	\$799.95	\$759.95
162974CE	Logic probe	59.95	53.95
163141CE	Rechargeable battery	45.95	41.49
162966CE	RS-232 cable & software	26.95	24.25
221946CE	Scope probe	24.95	23.69

50MHz Digital PC-Based Oscilloscope, Spectrum Analyzer and Transient Recorder

- Sampling frequency: 1.25kHz-50MHz real-time; 1GHz repetitive
- Input impedance: 1MΩ/30pF
- Parallel Port Interface
- Inputs: 2 channels, 1 external trigger input
- Max. input voltage: 100V (AC and DC)
- Power required: 9V to 10V @ 1000mA (recommend P/N 364576CE, pg 198)
- **Oscilloscope:** Timebase: 20ns-100ms per division
- Input sensitivity: 5mV-15V per division with auto step-function
- Recording length: 4096 samples per channel
- **Spectrum Analyzer:** Frequency range: 0 to 25MHz
- **Transient Recorder:** Time scale: 20ms/div-2000s/div
- Max. recording time: 9.4 hours/screen
- Max. number of samples: 100/s



Velleman

System requirements: IBM compatible PC, Windows® 95/98/ME, SVGA card, mouse, printer port, CD-ROM

Includes: 2 test leads, PC parallel cable, manual and CD-ROM software

Part No.	Product No.	1	5
200184CE	PCS500AU	\$478.95	\$429.95

PC-MultiScope 20MHz 2-Channel Digital Oscilloscope

mission technology



Turn your PC into a digital storage oscilloscope for 1/2 the cost of a DSO!

- 100MHz sampling; dual channel
 - Chart recorder and FFT mode
 - 5mV to 5V per div.; 20MHz bandwidth; ext. trigger
 - 0-4MHz sine and square wave signal generator
 - Triple power supply: 5VDC @ 500mA and $\pm 0-8VDC$ @ 250mA
 - One-year warranty
 - Size: 4.3"L x 5.0"W x 1.5"H
 - Weight: 3.8 lbs.
- Includes:** Parallel port cable, AC adapter, alligator clip probe, Windows® 3.1/95/98 software

Part No.	Description	1	10
163230CE	PC-MultiScope 3	\$579.95	\$529.95

20MHz 2-Channel Analog Oscilloscope



EZ DIGITAL

Blue CRT for higher resolution!

- 6" rectangular high-resolution blue CRT with internal graticule & scale
 - Vertical deflection: 5mV/div to 5V/div in 10 calibrated steps
 - Horizontal deflection: 0.2 μ s/div to 0.2s/div in 19 calibrated steps, 1-2-5 sequence
 - Max. signal input voltage: 250V (DC and peak AC)
 - ADD function measures sum of two signals
 - Input voltage: 98-125VAC @ 1A, 198-225VAC @ 0.5A, 50-60Hz, 45W
 - Two-year manufacturer's warranty
 - Size: 16.4"L x 12.6"W x 5.3"H
 - Weight: 20.8 lbs.
- Includes:** Two (X1/X10) 40MHz probes, power cord, manual, and block diagram

Part No.	Product No.	1	5
136098CE	OS5020	\$399.95	\$385.95

20MHz 2-Channel Analog Oscilloscope with 1MHz Function Generator

- Basic specs same as OS5020 (above)
- **Function generator**
- Frequency range: 0.1Hz to 1MHz (7 ranges)
- Output waveforms: sine, triangle, square, TTL pulse
- Output impedance: 50 Ω
- Output voltage: 14Vp-p
- Size: 12.6"L x 12.6"W x 6.8"H
- Weight: 23.8 lbs.
- Two-year manufacturer's warranty



2 Instruments in 1

EZ DIGITAL

- Includes:** Two X1/X10 40MHz probes, power cord, manual, BNC to alligator, and cable

Part No.	Product No.	1	10
94650CE	OS5020G	\$529.95	\$499.95

20MHz 2-Channel Analog Oscilloscope with Built-in Component Checker

- 6" rectangular CRT with internal graticule
- Built-in component checker/tester for resistors, capacitors, coils, diodes
- Vertical sensitivity: 5mV/div to 20V/div in 12 calibrated steps (1-2-5 sequence)
- Input impedance: 1M Ω , 20pF
- Max. input (vertical amplifier): 300VDC or AC peak
- Horizontal sweep time: 0.2 μ s/div to 0.5s/div in 20 calibrated steps (1-2-5 sequence)
- Internal trigger sensitivity: 20Hz to 20MHz
- Size: 17"L x 14"W x 5.75"H
- Weight: 15.5 lbs.



Protek

- Includes:** Two X1/X10 60MHz probes, power cord, and operations manual

Part No.	Product No.	1	5
201857CE	P-3502C	\$394.95	\$375.19

20MHz 2-Channel Analog Oscilloscope with Alt-Mag and 1mV/div Sensitivity

- Large 6" CRT with internal graticule
- Alt-Mag sweep for simultaneous displays of the main and X5 magnified trace
- Auto-focus
- Input voltage: 100V, 120V, 220V, 240V @ 50-60Hz (selectable)
- Size: 14.8"L x 13.4"W x 5.5"H
- Weight: 24 lbs.

SALE

Protek

- **Vertical Amplifier**
- Sensitivity – 1mV/div to 1V/div (X5 Mag); 5mV/div to 5V/div in 10 steps (1-2-5 seq.)
- Bandwidth: (-3dB): DC to 20MHz
- Input impedance: 1M ohms, 25pF
- Maximum input voltage: 400V (DC or AC peak)
- **Horizontal Sweep**
- Sweep time: 0.1 μ s/div to 0.2s/div in 20 steps (1-2-5 seq); X5 mag: 20ns/div to 40ms/div
- **Triggering**
- Sensitivity: Internal – DC to 2MHz: 2 divisions; 2MHz to 20MHz: 3 divisions

- Includes:** X1 and X10 probes, power cord & manual

Part No.	Product No.	1	5
220679CE	PROTEK 6502	\$429.95	\$408.45

100MHz 2-Channel Analog Oscilloscope

- 2-channel dual trace
- Delay line
- Auto focusing according to intensity
- Size: 16.9"L x 12.6"W x 5.5"H
- Weight: 22.8 lbs.
- Two-year warranty



EZ DIGITAL

- Includes:** Two (X1/X10) 100MHz probes, power cord, and operations manual

Part No.	Product No.	1	5
121179CE	OS5100	\$999.95	\$964.95

Detailed specifications for Oscilloscopes at www.Jameco.com/OScopes

100MHz Delayed Sweep Analog Oscilloscope w/ Frequency Counter

2 Channel, 4 Trace

- DC to 100MHz bandwidth
- 6" rectangular CRT with internal graticule
- Auto set, readout cursor, delay sweep, hold-off functions
- Z-axis intensity modulation: DC to 2MHz bandwidth; 30VDC + peak AC max. input voltage
- Vertical deflection factor: 2mV/div to 5V/div
- Horizontal time base A/B deflection: 5ns/div to 0.5s/div in 22 calibrated steps
- Input coupling: AC, GND, DC
- Rise time: 3.5ns or less
- Weight: 17.6 lbs.



EZ DIGITAL

- Includes:** Two X1/X10 100MHz probes, power cord, and operations manual

Part No.	Product No.	1	5
190932CE	OS5100RB	\$1,199.95	\$1,139.95

150MHz 2-Ch Digital Oscilloscope Color and Monochrome with RS-232/USB/Parallel Interfaces

- Bandwidth (-3dB): 150MHz
- Real-time sample rate: 100MS/s maximum on each channel; equivalent: 25GS/s
- 2 channels with 8-bit vertical resolution
- Record length 125k/CH
- Auto set vertical, horizontal, and trigger level
- 15 memory settings
- Vertical sensitivity: 2mV/div – 5V/div
- Time base range: 1ns/div – 10S/div
- Trigger sensitivity: DC – 25MHz: 0.35div or 3.5mV; 25MHz – 150MHz: 1.5div or 10mV
- Input voltage: 100-240VAC @ 50-60Hz
- Frequency counter: 6 digits ± 50 ppm: AC coupled, 10Hz – 150MHz
- Two-year warranty
- Size: 12.2"W x 10.0"D x 5.6"H
- Weight: 9.3 lbs.



INSTEK

- Includes:** BNC cable, power cord & operations manual

Part No.	Product No.	1	5
229358CE	GDS-820S	\$1,259.95	\$1,196.95
229366CE	GDS-820C	1,439.95	1,367.95

PROBE MASTER Oscilloscope Probes

Designed for use with Tektronix and Hewlett Packard oscilloscopes.

- 3 position switch: x1, ref, x10
- Bandwidth @ 3dB: 10MHz (x1); 150MHz (x10)
- Loading: 57pF, 1M Ω (x1); 15pF, 10M Ω (x10)
- Low-resistance gold contacts
- Cord length: 5'



174473CE



212257CE

- Includes:** 7-piece kit

Part No.	Product No.	1	10
174473CE	4901-02 (150MHz)	\$49.95	\$44.99
212257CE	4915A (250MHz)	149.95	142.49

Pomona

100MHz Probe Set

- Complete accessory kit included
- Attenuation: x1/x10
- Bandwidth: 15/100MHz (-3dB)
- Rise time: 23.33/3.5ns
- Input resistance: 1/10MΩ
- Capacitance: 64/10.5pF
- Compensation range: 10-60pF • 48" cable

Part No.	Product No.	Description	1	10
156451CE	4550B	Probe kit	\$51.95	\$46.95

Pomona

300MHz Probe Set

- Attenuation: X10
- Bandwidth (-3dB): 300MHz
- Rise time: 1.17 ns
- Input resistance: 10 MΩ
- Capacitance: 17pF
- Compensation range: 10-60 pF • 47" cable

◆ This product ships from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

Part No.	Product No.	Description	1	5
571233CE	5809B	Probe kit	\$90.29	\$85.75

Modular Oscilloscope Probes



- Hook and pointed probes
- 216047CE/236777CE: with IC test ground cover and spring ground contact
- Length: 5'
- Alligator clip ground wire
- BNC male connector
- Maximum input voltage: 600V

Part No.	Bandwidth (±3dB)		Impedance (R/C) *	
	Attenuation		Attenuation	
	x1	x10	x1	x10
22891CE	6MHz	60MHz	1MΩ/180pF	10MΩ/22pF
216047CE	6MHz	100MHz	1MΩ/47pF	10MΩ/16pF
236777CE	6MHz	250MHz	1MΩ/47pF	10MΩ/14pF

* with 20pF oscilloscope input

Part No.	Cross Ref. No.	1	10	50
22891CE	LF101E	\$24.95	\$22.46	\$20.21
216047CE	HF-9100	\$34.95	\$29.95	\$26.95
236777CE	HP-9250	\$45.95	\$43.39	\$37.25

17MHz Logic Probe

- Max input freq.: 17MHz
- Minimum pulse width: 30ns
- Input impedance: 1MΩ
- Pulse flash time: 500ms
- Audible tones for high and low
- Power supply protection: ±20V
- TTL threshold: Lo = 0.8V ±0.2V, Hi = 2.3V ±0.2V
- CMOS threshold: Lo = 30% VCC, Hi = 70% VCC
- Size: 7.7"L x 1.0"W x 0.6"H

Part No.	Description	1	10	25
149930CE	Logic probe	\$29.95	\$26.99	\$24.29

Logic Pulser

- Compatible with TTL, DTL and CMOS ICs
- 1MΩ sync input impedance
- "One shot" or continuous 5Hz train pulse
- Pulse repetition rate: 0.5pps/400pps
- Pulse width output at 100mA load: 10μs
- Pulse mode output current: 10mA
- Square wave current output: 5mA
- Size: 7.8"L x 1.0"W x 0.6"H

Part No.	Description	1	10	25
24601CE	Logic pulser	\$21.95	\$19.76	\$17.78

100MHz Logic Analyzer USB Interface

- DigiView™ is a new 18-channel, 100MHz logic analyzer with professional quality and high portability. DigiView™ uses a deep-capture buffer and real time hardware compression to achieve long period captures without reducing resolution.
- 18-channels, 100MHz
 - USB interface and power source for portability
 - Real time hardware compression
 - Compression ratio up to 256,000:1
 - Trigger on rising, falling, or transition of any channel
 - Pre-trigger and post-trigger data capture
 - Captures up to 5 minutes of data @ 10ns resolution

Part No.	Description	1	5
256866CE	USB logic analyzer	\$498.95	\$474.09
256874CE	Cable replacement	\$29.95	\$28.49
256882CE	Grabber clip set (10)	\$29.95	\$28.49

METEX® 4-in-1 Universal System

With Function Generator, Universal Counter, DC Power Supply & Digital Multimeter

Function generator

- capable of generating seven forms of waves (sine, square, triangle, skewed sine, ramp, pulse, and TTL square wave) in seven frequency ranges from 0.2Hz to 2MHz

Universal counter

- capable of measuring frequency ranges from 5Hz to 1.3GHz

Includes: Manual, cables and software

Part No.	Product No.	1	5
160864CE	MS9150	\$549.95	\$499.95



Less Bench Space – Great Convenience

1.5GHz Frequency Counter

2 Channels

- Input voltage: 115/230VAC @ 50-60Hz (switchable)
- Gate time: 0.01s, 0.1s, 1s, 10s
- 9-digit green LED display
- Frequency range: 0.1Hz to 150MHz (A input); 50MHz to 1.5GHz (B input)
- Resolution: 0.1nHz to 10Hz (A input); 0.1Hz to 100kHz (B input)
- Frequency, period, totalize, RPM
- Size: 10.3"L x 10.0"W x 3.2"H • Weight: 5.3 lbs.
- One-year warranty

Includes: Fuse, manual and BNC cable

Part No.	Product No.	1	5
55790CE	FC-7150	\$284.95	\$259.95



2MHz Sweep Function Generator with Frequency Counter

- Frequency range: 0.02Hz-2MHz in 7 ranges
- Sweep width: 1:1 to 100:1; rate: 20ms to 25s (.5Hz-50Hz)
- Output impedance: 50Ω ±5%
- Frequency counter range: 0.2Hz to 50MHz
- Maximum input voltage: 150VRMS @ 1kHz
- Input voltage: 115/230VAC @ 50-60Hz (switchable)
- Size: 10.3"L x 10.0"W x 3.2"H
- Weight: 5.8 lbs. • One-year warranty

Includes: Probe and detachable power cord

Part No.	Product No.	1	5
94676CE	FG7002C	\$329.95	\$296.95



2MHz & 10MHz Sweep Function Generators w/ Frequency Counter

Function Generator

- Wave forms: sine, square, triangle, skewed, ramp, pulse & TTL level square
- Frequency: 2Hz to 2MHz in 7 ranges (192671CE); 1Hz to 10MHz (221911CE)
- Output amplitude: 2 to 20Vpp at open load; 1 to 10Vpp at 50Ω load
- Output impedance: 50Ω ±10%
- Offset variable range (max.): ±10VDC at open load
- Frequency sweep time: 20ms to 2s

Frequency Counter

- Measuring range: channel A: 1Hz to 20MHz; channel B: 20MHz to 2.7GHz
- Input sensitivity: channel A: 20mVRMS sinewave or 100mVp-p; channel B: 40mVRMS for 20MHz to 1.3GHz; 70mVRMS for 1.3GHz to 2.7GHz
- Maximum input voltage: channel A: 35Vp-p; channel B: 3Vp-p
- Input impedance: channel A, 1MΩ; channel B, 50Ω
- Data logging and graphic software
- Size: 11.0"L x 8.2"W x 3.7"H • Weight: 13.4 lbs.

Includes: Coax and power cable, manual, serial cable and software

Part No.	Description	1	5
192671CE	2MHz/2.7GHz	\$319.95	\$255.96
221911CE	10MHz/2.7GHz	\$417.95	\$396.99



2MHz & 3MHz Function Generators w/ Frequency Counter

Function Generator

- Wave forms: sine, triangle, square, TTL, and CMOS output; 229260CE has ramp
- Frequency ranges: 229251CE: 0.2Hz – 2MHz in 7 ranges; 229260CE: 0.3Hz – 3MHz in 7 ranges
- Output amplitude: >10Vp-p into 50Ω load
- Output impedance: 50Ω ±10%
- DC offset range: <-5V to > +5V into 50Ω load
- Voltage controlled frequency function
- Variable DC offset control



229251CE



229260CE

Frequency Counter

- Input voltage: 115/230VAC @ 50-60Hz
- Weight: 4.4 lbs. • Two-year warranty
- 229251CE:
 - 4-digit LCD display
 - Ranges: 0.2Hz to 2MHz internal only; with resolution of 0.1Hz to 1kHz
 - Size: 9.1"W x 11.0"D x 3.7"H
- 229260CE:
 - 6-digit LCD display
 - Ranges: INT/EXT switch, 0.3Hz to 3MHz internal and 5Hz to 150MHz external; resolution of 10Hz to 0.1Hz
 - Size: 9.9"W x 11.5"D x 3.6"H

SALE

Includes: Power cord, operations manual and leads

Part No.	Product No.	Description	1	5
229251CE	GFG-8020H	2MHz	\$259.95	\$246.95
229260CE	GFG-8216A	3MHz	279.95	251.99

2MHz Function Generator

- Frequency range: 0.02Hz to 2MHz
- Waveforms: sine, triangle, square, ramp, TTL pulse, skewed sine
- DC offset voltage from 0 to ±10V; can be superimposed to output waveform
- Variable waveform/duty cycle symmetry
- Output volt.: 20Vp-p (open circuit), 10Vp-p (into 50Ω)
- Input voltage: 110V/220V 50-60Hz
- Size: 10.0"L x 8.0"W x 3.0"H • Weight: 5.4 lbs.
- One-year manufacturer's warranty



Includes: Cord, BNC to clip cable, fuse and manual

Part No.	Product No.	1	5	10
66069CE	FG8002	\$189.95	\$179.95	\$169.95

Detailed specifications for Function Generators
www.Jameco.com/FunctionGen

We're Listening to Your Requests

Email us at NewProducts@Jameco.com with suggestions for products you'd like to see in future catalogs.

3MHz Function Generator

- Square, triangle, and sine waves; TTL and CMOS pulse outputs
- Frequency: 0.3Hz to 3MHz in 7 ranges
- Output impedance: 50Ω ±10%
- CMOS output level: 4Vpp, ±1Vpp to 14.5Vpp; ±0.5Vpp adjustable
- DC offset: <-5V to >+5V into 50Ω load
- Variable controlled frequency input
- Variable DC offset control
- Signal polarity invert button • Duty cycle control
- Size: 9.6"W x 11.5"D x 3.7"H • Weight: 4.4 lbs.



Part No.	Product No.	1	5
222594CE	FG2C	\$239.95	\$234.95

5MHz Function Generator

Engineered for high reliability and user convenience.

- Waveforms: sine, square, triangle and ramp
- 0.5 to 5MHz
- 100% DC offset
- Variable duty cycle
- Output impedance: 50Ω
- Coarse and fine tuning
- Size: 10.4"W x 11.7"D x 3.4"H
- Weight: 6.2 lbs. • Two-year warranty



Part No.	Prod. No.	Description	1	5
160469CE	BK4011A	0.5 to 5MHz	\$314.95	\$299.95



30-Watt Digital Benchtop Power Supply

- Single output with adjustable 1.5VDC to 30VDC
- Compact design
- Input voltage: 85-264VAC @ 47-63Hz
- Output terminals
- Large digit backlit display
- 1A fixed current output
- Overload and short-circuit protection
- Size: 5.5"L x 5.2"W x 1.6"H • Weight: 1.2 lbs.



Part No.	Product No.	1	10
301971CE	PSU130	\$79.95	\$75.95

200W Programmable Switching Power Supplies with PC Interface

- Voltage regulation:
 - ≤10mV load; ≤0.05% line
- Current regulation:
 - ≤5mA load; ≤0.05% line
- Output ON/OFF control
- Ripple: ≤20mV_{RMS}; ≤10mA_{RMS}
- Over-voltage/over-current/over-power/over-temperature protection
- Standard RS-232C 9-pin female interface
- Input voltage: 115/230VAC @ 50-60Hz
- Size: 8.9"W x 12.0"D x 3.9"H
- Weight: 8.8 lbs. • Two-year warranty



INSTEK

Includes: Power cord, operations manual & test leads

Part No.	Product No.	Description	1	5
229323CE	PSP-2010	0-20V @ 0-10A	\$349.95	\$332.45
229294CE	PSP-603	0-60V @ 0-3.5A	\$349.95	\$332.45

90-Watt Digital DC Power Supply

30VDC @ 3A

- Constant current and constant voltage operation
- Can be used for positive or negative source
- Overload protection circuit
- Input voltage: 100/240VAC @ 50-60Hz
- Size: 5.2"W x 5.6"H x 10.0"D
- Weight: 10.9 lbs.
- One-year warranty



EZ DIGITAL

Part No.	Product No.	1	10
121152CE	GP4303D	\$189.95	\$179.95

100-Watt Triple Output Digital and Analog DC Power Supplies

30VDC @ 3A

- Triple output with fixed 5VDC @ 0.5A, 12VDC @ 0.5A
- Adjustable 0 – 30V voltage and 0 – 3A current outputs
- Displays of both voltage and current
- Constant voltage or current
- Current limiting indicator
- Overload and short circuit protection
- Binding post terminals for variable supply
- Input voltage: 110/220VAC @ 50-60Hz (switchable)
- Size: 9.5"L x 6.0"W x 5.6"H • Weight: 10.0 lbs.

EXTECH INSTRUMENTS



197991CE



197982CE

Part No.	Description	1	10
197991CE	Digital DC	\$198.95	\$178.95
197982CE	Analog DC	168.95	151.95

150-Watt Digital Power Supply

30VDC @ 5A

- Adjustable voltage/current outputs • 2A @ 250V fuse
- Constant voltage and current operation • Dual digital display
- LCD displays for both current and voltage
- Coarse/fine adjustment knobs for current and voltage
- Input voltage: 110/220VAC @ 50-60Hz (switchable)
- Color-coded terminals for positive, negative and ground connections
- Size: 5.4"W x 10.7"D x 6.0"H
- Weight: 13.8 lbs. • One-year warranty



Part No.	Description	1	10	25
153242CE	30VDC @ 5A	\$234.95	\$211.49	\$190.35

150-Watt Power Supply

50VDC @ 3A

- Adjustable voltage/current outputs
- Constant voltage & current operation
- Color-coded terminals for ground, positive and negative terminals
- 3A @ 115V fuse
- Color-coded adjustment knobs for voltage, current and fine adjustment
- Input voltage: 110VAC @ 60Hz
- Color: dark gray • Weight: 12.3 lbs.
- Size: 9.0"L x 4.75"W x 7.5"H • One-year warranty



Part No.	Description	1	10	25
163723CE	50VDC @ 3A	\$143.95	\$136.75	\$129.89



45W to 600W Benchtop Power Supplies

- Voltage and current adjustable
- Current restricted and short-circuit protection
- Input voltage: 110/220 \pm 10% VAC

- Analog display power supplies • Accuracy: 2.5%
- Digital display power supplies
- Voltage accuracy: 1% + 2 digits
- Current accuracy: 1.5% + 2 digits



301920CE



207618CE



207706CE



211692CE

Single Output

Part No.	Product No.	Displays	Power (W)	Voltage (VDC)/Current (A)	Size (W"xH"xD")	Wt. (lbs.)	1	10
301920CE	HY1503C	2-Analog	45	15/3	3.8 x 6.3 x 9.1	9	..... \$99.95	\$94.95
301866CE	HY3003D	2-Digital LCD	90	30/3	5.4 x 6.2 x 11.5	10	..... \$179.95	\$170.95
207618CE	HY3005C	2-Analog	150	30/5	5.4 x 6.2 x 11.5	14	..... \$159.95	\$144.95
207626CE	HY3010C	2-Analog	300	30/10	10.4 x 6.5 x 14.4	31	..... \$299.95	\$224.96
207693CE	HY5002	2-Digital LED	100	50/2	5.4 x 6.2 x 11.5	13	..... \$189.95	\$142.46
301911CE	HY3005D	2-Digital LCD	150	30/5	5.4 x 6.2 x 11.5	13	..... \$224.95	\$213.70
207706CE	HY5003	2-Digital LED	150	50/3	5.4 x 6.2 x 11.5	13	..... \$249.95	\$190.00
207600CE	HY5005	2-Digital LED	250	50/5	10.4 x 6.5 x 14.4	17	..... \$299.95	\$239.96
207634CE	HY3010	2-Digital LED	300	30/10	10.4 x 6.5 x 14.4	31	..... \$399.95	\$305.00
207685CE	HY3020	2-Digital LED	600	30/20	10.4 x 6.5 x 14.4	42	..... \$499.95	\$449.95

Multiple Output

Part No.	Product No.	Displays	Power (W)	Voltage (VDC)/Current (A)	Size (W"xH"xD")	Wt. (lbs.)	1	10
211721CE	HY3002-2	2-Digital LED	120	0-30/2; 0-30/2	10.4 x 6.5 x 14.4	23	..... \$249.95	\$194.00
211705CE	HY3002D-2	4-Digital LCD	120	0-30/2; 0-30/2	10.4 x 6.5 x 14.4	23	..... \$269.95	\$202.46
211692CE	HY3003D-2	4-Digital LCD	180	0-30/3; 0-30/3	10.4 x 6.5 x 14.4	28	..... \$289.95	\$259.95
211730CE	HY3003-2	2-Digital LED	180	0-30/3; 0-30/3	10.4 x 6.5 x 14.4	28	..... \$299.95	\$230.00
211713CE	HY3003-3	2-Digital LED	195	0-30/3; 0-30/3; 5/3	10.4 x 6.5 x 14.4	29	..... \$319.95	\$287.95
211684CE	HY3003D-3	4-Digital LCD	195	0-30/3; 0-30/3; 5/3	10.4 x 6.5 x 14.4	29	..... \$329.95	\$296.95
301946CE	HY3005D	4-Digital LCD	300	0-30/5; 0-30/5	10.4 x 6.5 x 14.4	26.5	..... \$349.95	\$332.45
301954CE	HY3005D-3	4-Digital LCD	315	0-30/5; 0-30/5; 5/3	10.4 x 6.5 x 14.4	29	..... \$369.95	\$351.45
301938CE	HY3005	2-Digital LED	315	0-30/5; 0-30/5; 5/3	10.5 x 6.5 x 14.3	10	..... \$199.95	\$199.95
301962CE	HY5003-2	2-Digital LED	300	0-50/3; 0-50/3	10.4 x 6.5 x 14.4	26	..... \$339.95	\$322.95

Analog Power Supplies

150 to 225-Watt

- Color-coded adjustment knob and output terminals for voltage
- Voltage and current panel meter
- Cigarette lighter plug for current output
- LED indicator for power and warning
- Constant voltage operation • Built-in fan

175265CE: 15VDC @ 10A

• Output current: 15A max.

• Over-voltage, over-current, short-circuit protection

• Input voltage: 110VAC @ 60Hz

175257CE: 15VDC @ 15A

• Output current: 25A max. (22A continuous @ 13.8VDC)

• Over-voltage protection @ 16.5V • Short-circuit protection @ 27.5A

• Input voltage: 110VAC/220VAC @ 47-63Hz (switchable)



175265CE



175257CE



175249CE

Part No.	Cross Ref. No.	Output Voltage	Size (L"xW"xH")	Wt. (lbs.)	1	10	25
175265CE	DPS150A	2-15VDC	5.7 x 6.2 x 4.0	12.0	..... \$149.95	\$134.95	\$129.95
175257CE	SPS250A	9-15VDC	5.6 x 6.2 x 4.0	3.8	..... \$159.95	\$143.95	\$129.56

250-Watt

- Color-coded adjustment knob & output terminals
- Input voltage: 110VAC @ 50-60Hz
- Adjustable voltage/current outputs
- Constant voltage & current operation
- 5A @ 250V fuse
- Isolated ground

Part No.	Cross Ref. No.	Output Voltage	Size (L"xW"xH")	Wt. (lbs.)	1	10	25
175249CE	DPS5050	0-50VDC	4.9 x 7.7 x 6.7	13.8	..... \$189.95	\$179.95	\$171.49

Lowest Price Guarantee

Have you found a product at a lower print-advertised price?
We'll beat that price by 10% right down to our cost.



90-Watt Digital DC Power Supply

30V @ 3A

NEW

- Input voltage: 110/220VAC @ 50-60Hz
- Resolution: 1% \pm 1 digit accuracy
- Constant voltage and current operation
- Size: 5.1"W x 10.1"D x 5.9"H

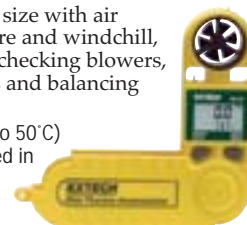


Part No.	Description	1	5
489184CE	DRP-303D	..... \$189.95	\$179.95

Mini Thermo-Anemometer

Waterproof, pocket size with air velocity, temperature and windchill, all in one. Ideal for checking blowers, fans, exhaust hoods and balancing AC/HT ducts.

- 0°F to 122°F (-18°C to 50°C)
- Measures wind speed in ft/min, MPH, m/s, km/h, knots and Beaufort force
- Large dual display for air velocity and temperature
- Water resistant housing floats and drop tested to 6'

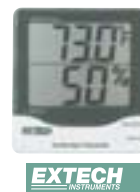


Includes: CR2032 lithium battery and lanyard

Part No.	Description	1	5
218085CE	Mini thermo-anemometer	..... \$88.95	\$84.49

Temperature/Humidity Meter with Min/Max Memory

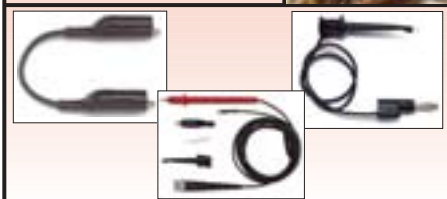
- Displays (%) relative humidity and temperature (°C/°F) simultaneously
- Min./Max. memory on both relative humidity and temperature with reset function
- Temperature range: 14°F to 140°F (-10°C to 60°C)
- Humidity range: 10% to 99%
- 1" high readout
- Size: 4.3"L x 3.9"W x 0.8"Thick



Includes: Built-in tilt stand, AAA battery, and wall mounting bracket

Part No.	Description	1	10	25
198045CE	Temp./humidity meter	..... \$36.95	\$35.09	\$33.35

For Our Expanded
Line of Test Leads
See pages 239 - 241



Pocket IR Thermometer with Laser Pointer

The pocket IR thermometer measures the surface temperature of objects which are difficult to reach or unsafe to contact. It also measures hot spots in electrical panels and equipment. In-process temperature measurements. With a 6:1 ratio field of view and built-in laser for improved aim, it covers 90% of surface applications for temperature measurement.

- Temperature range: -58°F to 518°F (-50°C to 270°C)
- Built-in laser pointer to improve aim
- F/C switchable
- Fixed emissivity (0.95) covers 90% of surface applications
- Visual overrange indicator
- 6:1 field of view
- Data hold and max hold
- Pocket size meter
- Size: 3.8"L x 2.0"W x 0.9"D

Includes: 2 AA batteries

Part No.	Description	1	5
219361CE	Pocket IR thermometer	\$59.99	\$56.99

EXTECH
INSTRUMENTS

Best
Seller!



Non-Contact Infrared Thermometers w/ Laser Pointer

- Built-in laser pointer identifies target area
- Field of view: 6:1 (6" distance measures 1" target)
- Automatic data hold when trigger released and auto power off
- Fixed 0.95 emissivity covers 90% of surface application

Includes: 9V battery

236451CE:

- Temperature range: -4°F to 500°F (-20°C to 260°C)
- Basic accuracy: ±3% of reading
- Backlighting illuminates display while measurements at night or in areas with low light levels
- Size: 6.7"L x 1.7"W x 1.6"D

211588CE:

- Temperature range: 0°F to 600°F (-20°C to 320°C)
- Basic accuracy: ±2% of reading
- 2000-count backlit LCD display
- Audible and visible over-range indicators
- Size: 8.3"L x 3.5"W x 1.5"D

Part No.	Product No.	1	10
236451CE	42500	\$79.95	\$74.95
211588CE	42529	88.95	84.50

EXTECH
INSTRUMENTS



236451CE



211588CE

Hygro + Infrared Thermometer

Combination humidity meter plus infrared thermometer features a super large backlit dual display. The primary display is user selectable for IR or humidity, while the secondary display always displays ambient temperature. The infrared thermometer has a built-in laser pointer with an 8:1 distance to target ratio.

- °C/°F • Auto power off
- Data hold and MAX
- Humidity ranges: 10.0 to 95.0% with ±3.5% accuracy
- Air temperature ranges: -4°F to +140°F (-20°C to +60°C) with ±3°F (2°C) accuracy
- IR temperature ranges: -58°F to +932°F (-50°C to +500°C); ±2% or ±4°F (2°C) accuracy
- Size: 2.8"W x 1.4"D x 5.9"H • Weight: 0.5 lbs.

Includes: Stand, holster, probe, battery and case

Part No.	Description	1	5
285974CE	Hygro/infrared thermometer	\$148.95	\$141.49

EXTECH
INSTRUMENTS



Electromagnetic Radiation Meter

Electromagnetic radiation is all around us, some good, some bad. But, there's never been an easier, more portable device to detect and measure it until the ZAP Checker. Now you can measure your microwave oven's emissions or take engineering measurements of HF, VHF, or UHF transmissions. ZAP Checker does it all. Its portability, multiple settings, ultra-high sensitivity and expanded bandwidth allows you to search out EMR whenever and wherever needed.

- 10MHz to 4.5GHz

Part No.	Description	1	10
217808CE	ZAP checker	\$129.95	\$114.95



Totally
Unique

Digital Light Meter

- Measures in Lux and footcandle ranges
- Range: Lux - 0 - 50,000 Lux (3 ranges); footcandle - 0 - 5,000 Fc (3 ranges)
- Analog output connectors for external recording
- Separate light sensor for optimum location sampling
- 0.5" digit height
- Dimensions (sensor probe): 3.2"L x 2.2"W x 0.5"H
- Weight: 0.9 lbs.



- One-year warranty

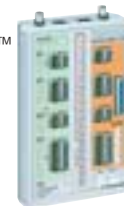
Part No.	Description	1	10
131764CE	Digital light meter	\$99.95	\$89.95

Paladin PC Cable-Check™ Tester

Tests standard computer cables for open, shorted and cross-connected wires. PC Cable-Check™ also tests any combination of D-sub 9-pin, D-sub 15-pin, D-sub 25-pin, Centronics 36-pin printer, plus RJ11, and RJ45 telephone plugs. A separate section to check USB-A to USB-B cables, as well as a separate section to check female BNC to female BNC cables.

Includes: Battery and manual

Part No.	Description	1	10
123916CE	PC cable-check™	\$169.95	\$152.95



RS-232 Mini-Tester with Status LEDs

Tests any RS-232 (DB25) interface and helps to identify equipment that has failed. Seven bicolor LEDs indicate the status of TD, RD, RTS, CTS, DSR, CD and DTR. LEDs indicate positive (red) and negative (green). No extra power is required. Connectors: male to female DB25.

Part No.	Description	1	10	100
26729CE	Mini-tester	\$11.95	\$10.76	\$9.68



Miniature RS-232 Breakout Box for Quick Design Changes

Design new interfaces or modify old ones quickly and easily. Completely self-contained. Connectors: male to female DB25.

Includes: 25 each 22 AWG wire jumpers and machine tool sockets

Part No.	Description	1	10	100
11181CE	Breakout box	\$8.95	\$7.61	\$5.71



Quantity SAVE

RS-232 Loopback Tester

The tester acts as a data verifier by sending data back to the transmission device. Used for diagnostic testing of RS-232 circuits. 4 LEDs monitor lines 2 to 3, 4 to 5, 6 to 20, and 15 to 17. Connectors: male to female DB25.

Part No.	Description	1	10	100
22728CE	Loopback tester	\$6.95	\$5.95	\$4.45



RS-232 Line Status Tester

Identifies simple interface problems which you can repair yourself. Targets the status of lines 2, 3, 4, 5, 6, 8, 11, 19, and 20. Connectors: male to female DB25.

Part No.	Description	1	10	100
14285CE	Check line tester	\$8.95	\$8.09	\$7.25



RS-232 Signal Adapter/Splitter

- Metal connectors: DB25 female and male, and DB9 male
- Gold-plated contacts

Part No.	Description	1	10	100
105195CE	Tri-port serial adapter	\$7.95	\$6.95	\$5.95



Flexible Multilink RS-232 Tester & Breakout Box

Visually indicates the status of lines 2, 3, 4, 5, 6, 8, 20, and 22 on the DTE and DCE sides. Provides signal status at a glance.

Complete cable "breakout" & reconfiguration. Connectors: DB25 male & DB25 female.

- Cable length: 4" • Size: 3.5"L x 3.3"W x 1.0"H

Includes: Handy carrying case, 10 jumper wires and a device wiring chart

Part No.	Description	1	10	25
25945CE	Tester/breakout box	\$22.95	\$19.95	\$17.95



Professional Electronic Technician Tool Kits for Every Situation!

51-Piece Tech Tool Kit

Essential kit for electronic machine maintenance and repair jobs!

- In addition to the tools listed in the matrix below, the kit includes:
 - 2 nut drivers
 - Solder pen
- Case features removable pallets, a combination lock and a cushioned black plastic handle
- Size: 12.5"L x 17.5"W x 3.5"H • Weight: 10.4 lbs.



Part No.	Description	1	5
26681CE	51-piece tool kit	\$94.95	\$73.15

55-Piece Tech Tool Kit

An assortment of tools for general & precision work for technicians, engineers, students, etc.

- In addition to the tools listed in the matrix right, the kit includes:
 - Screwdriver handle
 - 6-piece mini-hammer set
 - 5 piece of double edge blade
 - PLCC extraction tool
- Outer velcro pockets to store paperwork, etc.
- Complete your assortment with a multimeter (See pages 243-244)
- Size: 17.6"L x 12.8"W x 4.0"H • Weight: 9.2 lbs.



Part No.	Description	1	5
136311CE	55-piece tool kit	\$124.95	\$99.96

57-Pc. Master Electronics Tool Kit

Simply every tool needed for field repair or installation.

- All in a handsome lockable case, with room for spare parts or special equipment.
- In addition to the tools listed in the matrix below, the kit includes:
 - 5" & 6" side cutter
 - 5" & 6" long nose pliers
 - 8" combination pliers
 - 9.5" water pump pliers
 - Alignment driver
 - Parts tube
 - 5-piece file set
 - 6" stainless scissors
 - Testing driver
 - Solder wick
 - PVC insulated tape
 - Oil can
 - Carpenter hammer
- Carrying case has two removable pallets, adjustable compartments, and combination locks
- Size: 18.0"W x 13.0"D x 4.0"H • Weight: 16.0 lbs.



Part No.	Description	1	5
218245CE	Master electronic tool kit ...	\$124.95	\$117.95

Complete your assortment with a multimeter. See pages 242-245.



100-Piece Professional Electronics Tool Kit

Kit for field technicians and engineers!

- In addition to the tools listed in the matrix below, the kit includes:
 - Computer/polarity circuit tester
 - Mini vacuum cleaner
 - Cassette head cleaning fluid
 - 3.6V cordless screwdriver kit (bits included)
- Aluminum case features removable pallets, surface-type locks, and black plastic handle
- Size: 18.0"L x 14.0"W x 6.0"H • Weight: 15.5 lbs.



Part No.	Description	1	5
242851CE	100-piece tool kit	\$199.95	\$189.95

114-Piece Tech Service Tool Kit

- In addition to the tools listed in the matrix below, the kit includes:
 - 40-pc socket pack
 - 6" side cutter
 - 6" long nose pliers
 - 6" slip joint pliers
 - carpenter hammer
 - 3 piece trimmer set
 - stainless steel spring hook
 - 8" combination pliers
 - 2 removable pallets
- Solder wick
- Size: 18.5"L x 13.8"W x 6.7"H • Weight: 22.8 lbs.



Part No.	Description	1	5
149024CE	114-piece tool kit	\$279.95	\$251.99

Testing 1, 0, 1 ...

So without giving away any of your secrets, think about how much time you've spent testing cables for your computers. Was the time

reasonably spent, or did you fumble around trying to determine whether all the pins were connected, which lines were bussed together and which were crossed over?

OK, today's standards simplify the process immensely. But one of life's realities is that we sometimes have to reuse legacy cables and equipment. And when we do, a half hour here or an hour there can really add up. At your hourly rate, what does the financial impact add up to?

A simple solution is to carry an adequate cable tester with you, allowing you to get a quick and accurate picture of what connections are present in a cable.

Consider whether your future needs will be serial-focused or whether you might need USB and network testing capability. The former requires one of the RS-232C devices to the left, typically under \$10. And if you want to test a multitude of cable types, be sure to check out the Paladin PC Cable-Check™ on page 252. It may cost more today, but one or two uses could easily pay off with big savings.

Practical Practices
Money Saving Tips for the Engineer



Quick-Reference Table of Professional Tool Kit Contents

Parts included in kits	26681CE	136311CE	218245CE	242851CE	149024CE
3-prong holder		1	1	1	1
Anti-static strap		1		1	1
Brush	1	1	1	1	1
Crimping tool		1 (7-way)	1	1	1
Desoldering pump	1	1	1	1	1
Digital Multimeter	1			1	
Drill set					1
Files, needle	2-pc			6-pc	5-pc
Flashlight		1	1	1	1
Forceps					1
Heat sink		1	1		1
IC extractor		1	1		1
Inspection mirror			1		1
Measuring tape, 10-foot	1		1		1
Pliers, 8" lineman		1		1	
Pliers, bent needle nose	1	1	1	1	1
Pliers, diagonal cutter	1	1		1	1
Pliers, flat nose	1	1		1	1
Pliers, snipe nose					1
Scissors	1		1	1	
Screwdriver set	8-pc	3-pc	8-pc	12-pc	9-pc
Screwdrivers, precision	6-pc	6-pc	6-pc	6-pc	6-pc
Solder core		1	11	1	1
Soldering aid kit, 3-pc	1	1	1	1	1
Soldering iron	1	1 (30W)	1 (30W)	1 (30W)	1 (25W)
Soldering stand	1		1	1	
Tape, electrician				1	1
Tweezers	1	2	1	1	1
Utility components box	1		1	1	1
Utility knife	1	1	1	1	
Wire stripper					1
Wrench, adjustable		1		1	1
Wrench, hex key	7-pc	7-pc	7-pc	7-pc	7-pc
Wrench set			6-pc	5-pc	10-pc
Total Pieces	51	55	57	100	114
Price	\$94.95	\$124.95	\$124.95	\$199.95	\$279.95

Economy Tool Kits for Every Budget!

11 & 12-Piece Lightweight Computer-Service Tool Kits

- Both kits include:
 - 2 nut drivers: 3/16", 1/4"
 - 3-claw parts holder
 - 1-pc hex key wrench
 - IC extractor
 - 4-pc screwdriver set
 - Tweezers

167206CE: 11-Piece Tool Kit

- In addition this kit includes: Clear components, tube holder
- Size: 8.5"L x 5.9"W x 1.3"H
- Weight: 1.1 lbs.

14189CE: 12-Piece Tool Kit

- In addition this kit includes: 14-16 pin IC inserter/straightener
- Size: 9.0"L x 5.8"W x 1.3"H • Weight: 1.2 lbs.



167206CE



14189CE

Part No.	Description	1	10	25
167206CE	11-piece tool kit	\$12.95	\$11.01	\$8.26
14189CE	12-piece tool kit	16.95	15.26	13.73

24-Piece PC Premium Tool Kit

- 3.2mm x 75mm slotted screwdriver
- #0 x 75mm Phillips screwdriver
- 3 prong holder
- Spring tweezers
- Spare parts tube
- IC extractor • Torch
- Extension bar for ratchet bits
- Adjustable ratchet screwdriver
- Side cutter pliers • Long nose pliers
- 5mm and 7mm slotted bit • #1 and #2 Phillips bit
- T10, T15, T20, T25, and T30 Torx bit
- 1/4" and 3/16" nut • Socket adapter
- Size: 8.4"L x 5.9"W x 1.4"H • Weight: 1.3 lbs.



SALE

Part No.	Description	1	5
226085CE	24-piece premium tool kit	\$17.95	\$14.36

26-Piece SAE Hobby Tool Set

- 4-1/2" long nose pliers
- 4-1/2" diagonal cutting pliers
- #1 & #2 Phillips bits
- #1 & #2 pozi bits
- 3/16" & 1/4" slotted bits
- Hex to 1/4" driver adapter
- T-10, T-15, and T-20 Torx bits • Tweezers
- Driver handle • Compact carrying case
- 3" extension bar for 1/4" drive
- 3 slotted and 3 screw driver precision set
- 3/16", 1/4", 11/32" and 3/8" sockets for 1/4" drive
- Size: 12.0"L x 9.0"W x 2.0"H • Weight: 1.5 lbs.



Part No.	Description	1	10	25
170069CE	26-pc. SAE tool set ..	\$17.95	\$16.16	\$13.69

Commercial Customers

Open an account with us to consolidate your monthly billing and save time.

26-Piece Metric Hobby Tool Set

- 6 screwdrivers: Phillips #0, #1, slotted 0.05", 0.08", 0.09", 0.12"
- 10 bits: 5mm, 6mm, #No.1, #No.2, No.1, No.2, T-10, T-15, T-20, socket adapter
- Stainless steel tweezers
- Extension bar • Handle
- 4" long nose pliers
- Size: 6.4"L x 4.1"W x 2.0"H • Weight: 1.2 lbs.
- Sockets: 5, 6, 8, 10mm
- 4" side cutter
- Plastic carrying case



SALE

Blue Part No. = Limited Quantity Available

Part No.	Description	1	10	25
99629CE	26-piece tool set ☼	\$9.99	\$9.09	\$8.25

40-Piece Electronic Tech Tool Kit

- The kit includes:
 - Wire cutters/stripper
 - Adapter bit for sockets
 - Pocket clip screwdriver
 - Potentiometer alignment tools
 - T10-T25 reversible Torx screwdriver bits
 - 3/16"-1/2" S.A.E. nut driver sockets
 - 6mm-12mm metric nut driver sockets
 - Slotted and Phillips screwdriver bits
 - 10-pc screwdriver set
 - Extra long 3-claw parts holder
 - IC inserter w/ pin straightener • IC extractor
- Size: 9.5"L x 6.8"W x 1.4"H • Weight: 1.7 lbs.



Part No.	Description	1	10	25
119183CE	40-piece tool kit	\$21.95	\$19.76	\$15.80

Save Money! Buy a Second?

Your company pays you a good dollar for a reason – you're worth a lot to your company when you are creating a solution.

So think about how much time you spend locating tools. At your hourly pay rate, the time lost probably exceeds the cost of a duplicate set of tools.

You may have a well-outfitted bench, but some of us use hand tools in another location. If you spend less time searching for frequently used tools, you could save the company money in the long run and increase your productivity!

Practical Practices
Money Saving Tips for the Engineer



Aluminum Tool Case

This heavy-duty case is made of lightweight durable aluminum. A single inside panel and adjustable compartments easily carry hand tools, small soldering equipment, hand-held test equipment, and more.

- Size: 19"L x 14"W x 6"D



Part No.	Description	1	5
261884CE	Tool case	\$51.39	\$44.15

Heavy-Duty Tool/Equipment Case

Made of lightweight aluminum, this tool case is designed to take rough field use. Case includes tool pallet, egg carton foam lid, and 2.5" thick pre-cut foam bottom. Ideal for carrying fragile instruments, test equipment, and small hand tools.

- Size: 19"L x 14"W x 6"D



Part No.	Description	1	5
261876CE	Tool/equipment case	\$51.39	\$44.15

Kwik Change Tool/Parts Tote

Versatile storage tote for organized storage space. Front drop panel reveals four slide-out storage boxes and includes two interchangeable racks and one double deep rack. Bulk storage beneath lid for larger tools and exterior rack for small tool storage. Ruler on front for added convenience.

- Size: 20.5"H x 12"W x 14.5"D



SALE

Part No.	Description	1	5
261892CE	Tool/parts tote	\$44.95	\$42.75

2-In-1 Zippered Tool Bag

A high-quality tool tote case that can be used as two separate bags or zipped together as one case. The first bag has two large pouches for documents and paperwork or large items. The second bag contains 20 pockets for tools.

- Size: 16"L x 12"W x 2.5"D



Part No.	Description	1	5
261868CE	Tool/tote case	\$24.25	\$22.09

Check out our extensive tool section to fill your tool case. See pages 255 - 262.



For detailed dimensions, please visit our website at www.Jameco.com

Variable High-Speed Rotary Tool Kit

A multiple high-speed rotary tool kit with 6-speed selections ranging from 8,000 to 30,000 RPM, along with 40 bits and accessories, provides you all the power and precision you need to tackle almost any cutting, drilling, polishing, sanding or engraving job. With its high-speed output, plus a nylon body, you can grasp the tool lightly to perform fast rough work or delicate craftsmanship. A convenient shaft-lock button provides fast-and-easy accessory bit changing.

- 9" long variable-speed rotary tool
- Drum sander wheel
- 2 felt buffing pads
- 6 disk sanding pads
- 10 rotary grinders
- One-year manufacturer's warranty
- 3 drum sander pads
- Disk sanding arbor
- 7 disk grinders
- Grinder dressing stone
- 4 rotary files
- 2 drill bits
- Wrench

Blue Part No. = Limited Quantity Available

Part No.	Description	Case Dimensions	Wt. (lbs.)	1	5
211289CE	High-speed rotary tool kit	12.0"W x 7.0"D x 3.5"H	3.3	\$39.99	\$37.99

Adjustable Cordless Screwdriver

- Adjustable handle can be used folded or unfolded
- Thumb switch for reverse and forward action
- No load speed: 180 RPM
- Clutch operating torque from 4 to 21kg-cm
- 3.6V rechargeable battery
- Size: 10.5"L x 1.5" Dia.
- Weight: 1.6 lbs.

Includes: 6VDC @ 300mA power supply and screwdriver bits, slotted and Phillips

Part No.	Description	1	10
176680CE	Cordless screwdriver	\$36.95	\$33.26

Glue Gun and Sticks

- Adheres to PCBs, cardboard, wires, metal and cloth
- Silicon nozzle
- Electronic heating
- Trigger action
- Utilizes 100mm long gluesticks (2 sticks included)
- Size: 7.3"L x 6.3"W

Part No.	Description	1	10	25
72696CE	Glue gun	\$9.95	\$8.96	\$8.06
78633CE	Glue sticks (6/pk)	3.15	2.84	2.55
176292CE	Glue sticks (10/pk)	4.95	4.29	3.79

Mini-Drill and Stand

This Mini Drill is excellent for drilling through circuit boards and protoboards. The drill comes with an array of drilling, grinding and sanding attachments. Drill stand is designed to function like a drill press.

Part No.	Description	Wt. (lbs.)	1	10	25
26702CE	MS398 drill	0.8	\$29.95	\$26.95	\$23.95
26711CE	MS399 stand	1.8	19.95	17.95	15.95

32-Piece Security Bit Set

These bits match the security fasteners commonly used in today's electronic products.

Includes: Torx bits: #6, #8 and #10; Tri-wing bits: #1, #2, #3 and #4; Security hex bits: 5/64", 3/32", 7/64", 1/8", 9/64", 5/32", 3/16" and 1/4"; Security Torx bits: T8, T10, T15, T20, T25, T27, T30, T35 and T40; Spanner bits: 4, 6, 8 and 10mm; Phillips bits: #1, #2, #3 and #4; and 60mm magnetic bit extension that fits 1/4" hex driver

Part No.	Description	1	10
223829CE	32-piece security bit set	\$11.95	\$10.75

9-Piece Assorted Drill Bit Kit

- Variety of sizes: .014" to .125"
- Shank diameter: .125"
- Each kit will vary in contents of bit sizes

Part No.	Description	1	10	50
131676CE	9-piece drill bit kit	\$9.95	\$8.95	\$7.95

High-Speed Steel Step Drill Bits

Drill multiple holes in thin material with the same bit, faster and easier. Each bit does the work of many drill bit sizes. You can drill holes in most materials such as plastic, metal, and wood up to 1/8" thick.

Part No.	Description	1	10	25
229657CE	3/16" - 7/8" 13-step	\$14.95	\$13.45	\$12.10
172401CE	3/16" - 1/2" 6-step	9.95	8.95	7.95

PC Board Drill Bits

- Reconditioned carbon steel bits
- High quality long lasting cutting edge
- Use for drilling holes in glass PC boards

Part No.	Drill Dia.	No.	Application	1	10	100
16619CE	.021"	75	Miscellaneous	\$1.55	\$1.32	\$0.99
16580CE	.040"	59	Plated thru holes	1.75	1.49	1.12

Weller® 250-Watt, 3-Setting Industrial Heat Gun

- 750°F to 800°F hot air at nozzle; 3-position switch; hot-off-cool
- Designed for assembly and repair applications such as shrink tubing and vinyl, epoxy curing/drying/cooling
- 120VAC @ 60Hz • ESD safe
- Long-life heater and fan components
- 3-wire grounded plug; 6' cord

Part No.	Product No.	Wt. (lbs.)	1	10
191943CE	6966C	1.2	\$119.95	\$107.95

1000-Watt Heat Gun

- Dual heat setting: 600°F/1100°F
- Works with spot dry paints, plaster, spackle, and cure adhesives
- Use with heat-shrink material
- Thaw pipes, frozen locks, and loosen rusted bolts
- Input voltage: 110-120 VAC

Part No.	Description	1	6	12
254924CE	Heat gun	\$42.55	\$41.10	\$36.85

WAHL® 1,200°F Portable Heat Gun

- Portable and flameless heat
- Temperatures up to 1,200°F (650°C)
- Typical applications: shrink tubing, activate adhesives and potting compounds, form plastics and laminates and preheat flux
- Each cartridge (disposable butane lighter) provides approximately 20 minutes of heat
- Includes disposable gas lighter
- Electronic ignition
- Size: 4.8"L x 0.9"W
- One-year warranty

Part No.	Description	1	10
150691CE	Portable flameless heat gun	\$26.95	\$24.25

Heat Gun/Stripper

Dual-Setting

- Use with heat shrink material
- Works with spot-dry paint, plaster, spackle cure adhesives
- Will remove adhesive-applied tiles and linoleum without chipping
- Dual heat setting: 600°F/1100°F
- Thaw frozen pipes and locks, and loosen rusted bolts
- UL listed
- Size: 9.3"L x 7.0"W
- Weight: 1.8 lbs.

Part No.	Description	1	10	25
76865CE	Heat gun	\$39.95	\$35.95	\$31.95
217816CE	Heat shrink attachment	1.95	1.85	1.75
217832CE	Air spreader	1.95	1.66	1.24

PVC Heat Shrink Tubing

Polyolefin Heat Shrink Tubing

See page 101 for Heat Shrink Tubing.

Twin Wrench Driver Set

The handle of this twin wrench driver set has two tips, horizontal and vertical for those hard-to-reach areas.

- Non-slip double ended driver
- Three slotted bits: 4mm, 5mm, and 6mm
- Phillips bits: #1 and #2
- Pozi bits: #1 and #2
- Torx bits: 10mm, 15mm, and 20mm



SALE

Part No.	Description	1	10
223811CE	Twin wrench driver set	\$2.99	\$2.84

6-Pc Long-Neck Screwdriver Set

- Three slotted: 0.09"Dia. x 6.6"L, 0.12"Dia. x 6.6"L, 0.16"Dia. x 9.6"L
- Three Phillips: No.0, 0.12"Dia. x 6.6"L; No.1, 0.16"Dia. x 9.61"L; No.2, 0.09"Dia. x 6.65"L



Part No.	Description	1	10	50
99451CE	6-pc. screwdriver set	\$8.95	\$8.06	\$7.25

JAMECO Pocket Screwdriver

Phillips & Flat head

- Size: 6"L
- Pen clip for pocket storage



Part No.	Description	1	10	100
127271CE	Pocket screwdriver	\$1.55	\$1.45	\$1.19

11-Pc Precision Screwdriver Set

- 0.9, 1.2, 1.4, 1.8, 2.4 and 3mm slotted screwdrivers
- Phillips #00, #0 and #1 screwdrivers
- Awl
- Magnetic pick-up



Part No.	Description	1	5
226093CE	Precision screwdriver	\$4.49	\$4.29

7-Piece Insulated Screwdriver Set

- Tapered handle for sure grip
- Precision ground shank
- Hardened, magnetic tips

Includes: 0.4/0.8/1.0/1.2mm slotted; #0/1/2 Phillips



Part No.	Description	1	5
261999CE	Screwdriver set	\$19.25	\$17.59

6-Pc Precision Torx Screwdriver Set

- T5 and T6 x 50mm Torx screwdrivers
- T7, T8, T9, T19 x 50mm Torx hex screwdrivers



Part No.	Description	1	5
226106CE	Precision TORX screwdriver	\$12.95	\$12.29

6-Pc Precision Screwdriver Sets

34041CE includes: 3/64", 1/16", 5/64", 5/32", 1/8" & 9/64" slotted screwdrivers

34059CE includes: 3/64"#0, 1/16"#0, 5/64"#0, 3/32"#0, 1/8"#1 and 9/64"#1 Phillips screwdrivers



Part No.	Description	1	10	50
34041CE	Slotted set	\$3.59	\$3.23	\$2.91
34059CE	Phillips set	3.59	3.23	2.91

6-Piece Screwdriver & Pliers Set

- One micro cutting nipper
- One micro flat nose pliers
- 2 long-neck slotted: 0.12"Dia. x 9.61"L; 0.09"Dia. x 7.64"L
- 2 long-neck Phillips: No.0, 0.12"Dia. x 9.61"L; No.2, 0.09"Dia. x 7.64"L



Quantity SAVE

Part No.	Description	1	10	50
99565CE	Screwdriver/pliers	\$13.49	\$11.47	\$8.60

7-Piece Nut Driver Sets

- Premium hardened steel sockets
- Large colored handles

261850CE: Metric 5mm, 6mm, 7mm, 8mm, 9mm, 10mm & 11mm

261841CE: SAE 3/16", 1/4", 5/16", 11/32", 3/8", 7/16", 1/2"



Part No.	Description	1	5
261850CE	Metric nut driver set	\$8.99	\$8.65
261841CE	SAE nut driver set	9.89	9.49

5-Piece Pliers Set

- Precision machined heat-treated jaws
- Vinyl insulated handles

Includes: 6.5" needle nose; 7.5" lineman's; 8" slip joint; 8" groove joint & cutting pliers

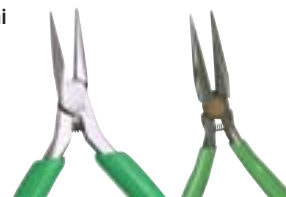


Part No.	Description	1	5
261905CE	Pliers set	\$9.75	\$9.25

Xcelite® Needle Nose Pliers

217891CE (submini needle nose): Serrated jaws

- Positive gripping of fine wire or subminiature components
- Fine point allows use in confined areas



217891CE

217998CE

217998CE: Smooth jaws

- General purpose for pick-up and wire forming

Part No.	Prod. No.	Description	1	10
217891CE	L4	4" mini needle nose	\$14.95	\$13.69
217998CE	LN54G	5" thin long nose	14.95	13.46

Precision 5-Piece Stainless Steel Pliers Set



- Spring return
- Insulated handles

Includes:

One 3.5"L micro cutting nippers and one each 4"L micro round nose pliers, long nose pliers, flat nose pliers and bent nose pliers

Part No.	Description	Wt. (lbs.)	1	10	25
73120CE	5-piece set	0.6 ...	\$17.95	\$16.16	\$14.54

Half-Round Long Nose Pliers

- Drop forged steel
- Spring return action
- Length: 4.5"
- Heat treated
- Vinyl grips
- Knurled jaws



Part No.	Description	1	10	50	100
177607CE	Half-round pliers	\$4.95	\$4.49	\$3.95	\$3.59

5" Cutting Pliers

Recommended for cutting copper and soft lead wires. Ideal for precise circuit board work. Spring loaded.



Part No.	Description	1	5
261809CE	Cutting pliers	\$4.99	\$4.55

SAE Hardware

Prepackaged: order in increments of 100 or 1000

← **Slotted Pan Head Machine Screws** →

Part Number	Screw Size	Thread	Length (inches)	100 piece minimum	
38172CE	2-56	Std	.250	\$0.025	\$0.022
40951CE	4-40	Std	.250	.019	.011
40969CE	4-40	Std	.375	.017	.012
106809CE	4-40	Std	.500	.018	.013

← **Hex Nuts** →

Part No.	Screw Size	Thread	Length (inches)	100	1000
38164CE	2-56	Std	.183	\$0.022	\$0.014
211123CE	4-40	Sm	.184	.023	.011
40942CE	4-40	Std	.243	.025	.013

Additional SAE Hardware on page 167.

Save Big! Special Values!

Sale Priced Items = Yellow
Exceptional Quantity Discounts = Green



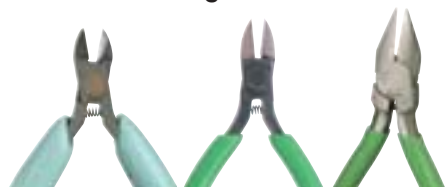
5.3" Flat and Half-Round Long Nose Pliers

- Stainless steel • Spring return
 - Durable rubber handles
 - 5.3" length w/ 1.4" plier nose
- 35473CE
35473CE/35490CE: Knurl jaws
195531CE: Smooth jaws



Part No.	Description	1	10	50	100
35473CE	Flat long nose ..	\$5.49	\$4.94	\$3.95	\$2.96
195531CE	Flat long nose	4.95	4.46	3.56	2.67
35490CE	Half round	5.49	4.94	3.95	2.96

Xcelite® Diagonal Cutters



217921CE 217904CE 217955CE

Manufactured from the finest forged alloy steel with polished head and cushion comfort handles.

- Flush cutting edge
- Cutting edges machine ground and electronically hardened for extended life
- Forged alloy steel w/ polished head
- Handle coil springs for fast cutting action
- ESD safe cushion grips for maximum comfort



217867CE

Part No.	Prod. No.	Description	1	10
217921CE	MS54J	4" oval head-flush	\$15.95	\$14.36
217955CE	S475JS	4" relieved head-flush ...	14.95	13.46
217904CE	MS549J	4" tapered head-flush ...	14.95	13.46
217867CE	MS545J	4" slim line tapered head-flush	14.95	13.46

Cutting Pliers

Flush Cut

- Stainless steel
- Side cutting flush cut
- Leaf spring for smooth controlled action



Part No.	Description	1	5
261788CE	Cutting pliers	\$6.95	\$6.55

Heavy Duty Tubing Cutter

- Clever design eliminates spiraling, resulting in straight clean cuts with no burrs
- Cuts copper, brass, aluminum tubing and thin-wall conduit up to 1-1/8" diameter • Fold-away reamer
- Extra cutter wheel stored in body
- Lightweight aluminum body and knob
- Telescopic wheel-feeding mechanism keeps turning radius constant • Length: 4.8"



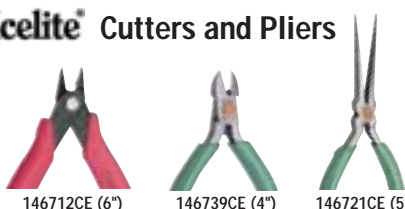
SALE

Part No.	Description	1	5
227475CE	Tubing cutter	\$17.95	\$17.05

We're Listening to What You Need

Let us know how we can better serve your electronics needs. Please send your requests to NewProducts@Jameco.com.

Xcelite® Cutters and Pliers



146712CE (6") 146739CE (4") 146721CE (5")

- Spring returns
- 146712CE: Micro series wire cutter – flush; 6"
- 146739CE: Diag. wire cutter – semi-flush; 4"
- 146721CE: Long needle nose pliers – flat; 5"

Part No.	Product No.	1	10	50	100
146712CE	170M	\$5.75	\$5.19	\$4.69	\$4.19
146739CE	MS54V	13.95	12.95	11.95	10.95
146721CE	MN7776V	16.95	15.95	14.95	13.95

Xcelite® Shearcutter/Pliers Set

- Improved handle grip for control and comfort
- Non-glare black finish carbon steel
- Size (plier): 5.6"L
- Size (shearcutter): 5.2"L



Part No.	Product No.	1	10	25
152055CE	S2K	\$15.95	\$14.95	\$13.95

4" Diagonal Wire Cutter

- Drop forged steel
- Heat treated
- Vinyl grips
- Spring return action
- Polished head
- Length: 4"



Part No.	Description	1	10	50	100
179901CE	Wire cutter	\$5.49	\$4.94	\$4.45	\$4.00

4.3" Diagonal Wire Cutter

- Cuts component wire up to 1.2mm thick
- Stainless steel
- Durable rubber handles
- Jaws are designed for flush cutting
- 4.3"L x 2.1"W with 0.5" cutting blade



Part No.	Description	1	10	50	100
35481CE	Wire cutter	\$5.59	\$4.99	\$4.55	\$3.99

5" Diagonal Wire Cutter

- Cuts component wire up to 1.2mm thick and 0.08mm fine wire
- Insulated handles
- Jaws are designed for flush cutting
- 5.0"L x 1.8"W w/ 0.5" cutting blade



Part No.	Mfr. Cross Ref. No.	1	10	25
161411CE	Wire cutter	\$7.49	\$6.74	\$6.07

molex® Hand Tools for Mini-Fit™ Jr.



304928CE: Accepts wire range from 14-24 AWG

Part No.	Product No.	Description	1	5
304928CE	63811-1000	Crimp tool	\$42.99	\$39.99
304936CE	11-03-0044	Extraction tool ...	19.99	18.99

H® 5" Wire Cutter/Stripper

- Strips and cuts 20-24 AWG wires
- Insulated grips
- Spring loaded for easy use
- Cutter angled @ 45 degrees for use in tight places
- Size: 5.0"L x 3.0"W



Part No.	Product No.	1	10	50	100
159273CE	HT109	\$5.49	\$4.94	\$4.45	\$4.00

5" Wire Cutter/Strippers

- Insulated handles
- Spring return
- Tempered steel cutting edge
- Size: 5.0"L x 3.0"W
- One-year warranty

78991CE: 10-30 AWG

(screw adjustable)

215888CE: 10-24 AWG

(dial to adjust for wire gauge)



78991CE 215888CE

Part No.	Mfr. Cross Ref. No.	1	10	50	100
78991CE	HT108	\$3.95	\$3.49	\$2.95	\$2.59
215888CE	JE-2022C	3.95	3.49	2.95	2.59



6" Wire Cutter/Strippers

- Plier nose
- Wire size markings, in AWG and mm
- Size: 6.0"L x 2.0"W

161226CE: Premium

- 12-20 AWG stranded; 10-18 AWG solid
- Color: yellow

161234CE: Premium

- 16-26 AWG stranded; 14-24 AWG solid
- Color: red

161234CE: Standard

- 16-26 AWG stranded; 14-24 AWG solid
- Color: red



161226CE 161234CE

Part No.	Prod. No.	Description	1	10
161226CE	ID45-215	Cushioned grips ..	\$16.75	\$15.91
161234CE	ID45-216	Cushioned grips	17.79	16.91
161218CE	ID45-121	Non-cushioned grips	13.59	12.95

H® 6.6" Wire Stripper

- Wire stripper, cutter, steel wire cutter, and wire loop
- Scale: AWG and mm
- Strips and cuts wires from 20-30 AWG
- Size: 6.6"L x 2.0"W



Part No.	Product No.	1	10	50
159290CE	HT5023	\$9.95	\$8.96	\$8.06

H® 7-in-1 Wire-Handling Tool

- Wire stripper, wire cutter, steel wire cutter, pliers and wire loop
- Solderless crimping tool
- Scale: mm and inch
- Size: 6.6"L x 3.0"W



18796CE

Part No.	Prod. No.	Description	1	10	50
18796CE	HT104	10-18AWG	\$4.95	\$4.49	\$3.95
127861CE	HT1042	16-26AWG	5.95	5.06	3.79
127870CE	HT1043	22-30AWG	5.49	4.94	4.45

Automatic Wire Strippers

175097CE: Spring load grip

- Size: 7.0"L x 2.5"W
- Weight: 0.8 lbs.

Includes: Wire stopper for desired strip length

202841CE:

- Size: 6.5"L x 3.0"W
- Weight: 0.3 lbs.

237219CE:

- Size: 5.2"L x 2.7"W • Weight: 0.2 lbs.



Part No.	Description	1	10	25
175097CE	Strips 8-22 AWG	\$16.95	\$15.26	\$13.73
202841CE	Strips 3-24 AWG	12.45	10.58	7.94
237219CE	Strips 14-24 AWG	9.95	8.46	6.34

Rotary Coax Cable Strippers

2 and 3 Blade

159118CE (3 Blade):

2 settings RG58/59/62

- For cable sizes 4-10mm
- Size: 4.2"L x 1.3"W
- Color: black

159185CE (2 Blade):

4 settings RG58/59/62/174

- For cable sizes 4-12mm
- Size: 3.9"L x 0.7"W • Color: gray

Includes: Hex key wrench for adjusting blade



Part No.	Product No.	1	10	25
159118CE	HT312B (3 blade)	\$13.95	\$11.86	\$8.89
159185CE	HT332D (2 blade)	13.95	12.56	11.30

Crimp/Cut/Strip Tool

For RJ11 (6P) and RJ45 (8P) Modular Plugs

- Repeatable crimp action for consistent high-quality connections
- Push-down locking mechanism
- Size: 8.0"L x 2.0"W • Weight: 0.8 lbs.

Includes: Cut and strip blade



SALE

Part No.	Cross Ref. No.	1	10
174684CE	TTK071	\$26.95	\$24.26

Telemaster Modular Connector Crimp/Cut/Strip Tool

For RJ11 (6P) and RJ45 (8P) Modular Plugs

- Repeatable crimp action for consistent high quality connections
- Size: 6.0"L x 2.0"W
- Weight 0.8 lbs.

Includes: Cut and strip blade



Part No.	Product No.	1	10
161091CE	ID30-496	\$39.95	\$36.65

Ratchet Crimp Tool

For RJ11 (6P) and RJ45 (8P) Modular Plugs

- Repeatable crimp action for consistent high-quality connections
- Size: 8.5"L x 2.2"W
- Weight: 1.2 lbs.

Includes: Cut and strip blade



Part No.	Cross Ref. No.	1	10
174676CE	TTK070	\$39.95	\$31.96

Professional Modular Connector Crimping Tool

- Spring return action
- 6mm and 12mm stripping guide
- Crimp modular plugs without changing dies
- Crimps 10P10C, RJ45: 8P8C, RJ11 and RJ12: 6P6C, and 4P4C
- Insulated handles • Size: 8.2"L • Weight: 1.2 lbs.



Part No.	Product No.	1	10	25
181147CE	HT200	\$54.95	\$49.49	\$44.55

Modular Connector Crimping Tool Set

- 8" metal modular crimping tool
- Cuts, strips and crimps
- Crimps RJ11 and RJ45 plugs
- Carrying case: blue hard plastic, 8.0"L x 10.5"W x 2.0"H
- Weight: 2.1 lbs.



Includes: 90 modular plugs, 40 pcs. 4P4C, 30 pcs. 6P6C, 20 pcs. 8P8C

Part No.	Product No.	1	10	25
73496CE	HT2000B	\$74.95	\$67.49	\$60.75

Metal Modular Connector Crimping Tool

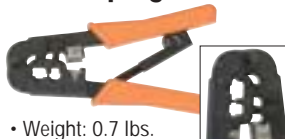
- Cable stripper and wire cutter
- Size: 8.0"L
- Weight: 1.8 lbs.
- Crimps 6P and 8P plugs (6P2C, 6P4C, 6P6C, 8P2C, 8P4C, 8P6C, 8P8C)



Part No.	Description	1	10	25
114526CE	RJ11/RJ45	\$24.95	\$22.49	\$20.25

Ratcheted Modular Connector Crimping Tool

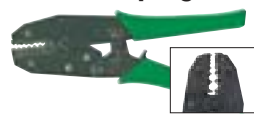
- Insulated grip
- Ratcheted type
- Metal • 7.5"L
- Crimps RJ45 (8P8C) and RJ11/12 (6P6C) • Weight: 0.7 lbs.



Part No.	Description	1	10	25
159311CE	RJ45/11/12	\$21.95	\$19.95	\$17.95

Ratcheted BNC Crimping Tool

- Crimps RG58, RG59, RG62, RG174 and fiber optic
- Hex sizes: 0.043", 0.068", 0.100", 0.137", 0.213", 0.255"
- Size: 8.5"L x 2.5"W • Weight: 1.1 lbs.



Part No.	Product No.	1	10	25
114534CE	HT-336G	\$23.95	\$21.59	\$19.45

Committed to You

We're committed to providing you with the best service in the industry.

Hex Crimp Tools

- Use with RG-58 and RG-59 connectors with up to a 3/8" ferrule

- 261745CE: 1.7mm standard crimp for crimping center conductor on BNC & TNC connectors; up to 3/8" ferrule
- 261737CE: Ferrules up to 1/2"



Part No.	Description	1	5
261745CE	Hex crimp tool (3/8")	\$19.75	\$18.55
261737CE	Hex crimp tool (1/2")	19.49	18.29

Solderless Terminal Crimping Tool

- Crimps solderless terminals: 18-22 AWG red, 14-16 AWG blue and 10-12 AWG yellow
- Size: 9.0"L x 2.0"W



Part No.	Product No.	1	10	25
72995CE	HT303	\$18.95	\$16.11	\$12.08

IDC Connector Crimping Tool

- Crimping distance: 27.5mm to 6mm (with attachment)
- Cushioned red handles
- Crimp insulation displacement connectors
- Use for IDC socket connectors, pg 126
- Size: 9.2"L x 3.0"W • Weight: 1.1 lbs.



Part No.	Product No.	1	10	25
73251CE	HT214	\$15.95	\$14.39	\$12.95

Non-Insulated Terminal D-Sub Crimping Tool

14-26 AWG

- Heavy-duty metal tool with cutter and insulated handles
- For computer pins and sockets, D-sub 26-28 AWG wire
- For butt-insulated connectors, 22-26 AWG wire
- For telephone spade lugs, 22-26 AWG wire
- For non-insulated connectors, 20-22 AWG wire
- For non-insulated connectors, 14-18 AWG wire
- Coiled spring return • Size: 7.3"L x 1.5"W



Part No.	Product No.	1	10	25	100
99442CE	HT202A	\$9.49	\$8.55	\$7.69	\$6.95

D-Sub Crimping Tool

20-28 AWG

- Crimps D-sub pins and sockets
- For use w/ P/Ns 43377CE, 43369CE, pg 109 & 100765CE, pg 124
- Size: 7.0"L x 4.0"W



Part No.	Product No.	1	10	25
159265CE	HT213	\$10.95	\$9.89	\$8.89

Nibbling Tool

- Perfect for cutting, trimming, or notching sheet metal up to 18 AWG
- Time-saver when working on prototyping, chassis, and circuit boards
- Minimum .375" hole required • Size: 7.8"L



Part No.	Prod. No.	Description	1	10	25
18809CE	HT204	Nibbling tool ...	\$7.95	\$7.16	\$6.44
29330CE	HT204B	Replcmnt bit	4.49	4.04	3.64

Compression Multi-Tool

Designed to compress ferrules of "F" /BNC/ RCA connectors. Black oxide steel frame with interchangeable die sockets, ratchet mechanism with manual release disengages after a complete cycle securing a fully compressed ferrule. Integrated coax cutter for cutting cables to appropriate lengths.



Part No.	Description	1	5
261761CE	Compression multi-tool	\$35.65	\$33.85

"F" Connector Compression Tool

Compresses RG-6 and RG-59 Snap-N-Seal type connectors.
• Length: 5"



Part No.	Description	1	5
261753CE	Compression tool	\$29.95	\$28.45

8-Piece Fold-Up Torx Key Set

- 3.7" long handle
- Torx bits: T9, T10, T15, T20, T25, T27, T30, T40 • Size: 3.7"L x 1.2"W



Part No.	Description	1	10	100
176006CE	Torx key set	\$6.35	\$5.76	\$5.23

25-Piece Hex Key Set

- 12-piece SAE long arm with sizes from 1/16" to 3/8"
- 13-piece Metric short arm with sizes from 1.5mm to 1cm



Part No.	Description	1	5
261825CE	Hex key set	\$6.95	\$6.59

Rivet Tool

Sets 3/32", 1/8", 5/32" & 3/16" rivets without adjustments. Simply change the appropriate nozzle, slip the rivet into the pre-drilled hole, and you have a perfect fasten. Spring-loaded handle for automatic ejection of the mandrel.



Part No.	Description	1	5
226114CE	Rivet tool	\$5.59	\$5.29
226288CE	1/8" x 1/4" long rivet (100 pk) ..	2.19	1.65
226296CE	3/16" x 1/4" long rivet (100 pk)	3.49	2.65

1/4-Watt & 1/2-Watt Resistor Lead Forming Tool

- Watt size indicates appropriate package size
- Bends lead length in .05" increments
- Excellent for capacitors also
- Lead spacing: 1/4W: 0.4"-1.5"; 1/2W: 0.5"-1.5"
- Size: 5.4"L x 1.5"W



Part No.	Description	1	10	50
106884CE	1/4W & 1/2W	\$2.79	\$2.65	\$2.52

9-in-1 Pocket Multi-Tool

- Bottle opener • Metal file
- Flashlight • Knife blade
- Nail pick • Wire cutter
- 2 handyman/long-nose pliers
- Phillips screwdriver
- Folded size: 2.75"L



Part No.	Description	1	5
227264CE	9-in-1 pocket multi-tool	\$4.39	\$3.99

Multi-Tool Storage Rack

Organize and store 106 of the most common tools in 24" of wall space. Made of durable plastic material, it easily mounts on a wall with the included screws.



Part No.	Description	1	4	8
239353CE	Storage rack	\$5.39	\$4.85	\$4.37

Heavy Duty Staple Guns

The standard stapler is perfect for contractors, home do-it-yourselfers, and specialty trade applications. We also offer the cable tackers that are ideal for a wide variety of applications such as telephone wire, cable TV, hi-fi systems, alarm systems, intercommunications and general electrical contract work. Both are made of durable nickel-plated steel for heavy-duty use. Rubber grip assures comfortable operation.



- Handle locking • Easy rear loading
- Adjustable high impact tension knob
- Hand stop for safe stapling control
- Visual reload window & rear loading

227969CE: T-50 Staple Gun

- Handles 5/16"; 3/8", 1/2", & 9/16" staples
- Use T-50 type staples, below

242886CE: 4-in-1 Staple/Tacker/Nail Gun

- Handles T-50 staples; T-25 cable tackers; 14mm long pin nails; 9/16"L long brad nails

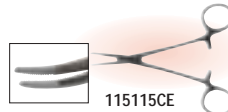
Part No.	Description	1	5
227969CE	T-50 staple gun	\$14.95	\$13.58
242886CE	4-in-1 staple/tacker gun	13.29	12.08

Staples

Part No.	Description	1	5
230295CE	T-50, 5/16" staples, 1250 ea.	\$2.25	\$2.05
230324CE	T-50, 9/16" staples, 1250 ea.	2.95	2.67
244988CE	3/8"L tackers, 1000 ea.	1.25	1.13
245016CE	T-25, 1/2"L tackers, 1000 ea.	1.35	1.20
245032CE	T-25, 9/16"L tackers, 1000 ea.	1.55	1.38

5" Steel Hemostats

- Grade 410 A.I.S.I. stainless steel
- Three locking positions



Part No.	Cross Ref. No.	Description	1	10	50
115107CE	HEMO1	Straight	\$3.49	\$3.14	\$2.83
115115CE	HEMO2	Curved	3.95	3.56	3.20

Free Technical Support

Our knowledgeable Tech Support is ready to answer your questions. Just call us! 1-800-831-4242

4-Piece Adjustable Wrench Set

Heavy-duty carbon steel wrenches with black industrial finish. Constructed with rugged I-beam handle and four-sided jaw design for better fit and strength.



- Length x jaw opening: 12" x 1 3/4"; 10" x 1 1/8"; 8" x 1"; 6" x 1 1/8"

Part No.	Description	1	5
261711CE	Adjustable wrench set	\$9.99	\$9.75

Adjustable Wrench

Made of chrome-plated carbon steel with knurled adjustment screw and angled head. Size: 6"L x 13/16".



Part No.	Description	1	5
261649CE	Adjustable wrench	\$4.15	\$3.69

Combo Wrench Set

- Dropped forged steel
- Combination open closed wrench ends



261489CE:

- 10 sizes: 4mm, 4.5mm, 5mm, 5.5mm, 6mm, 7mm, 8mm, 9mm, 10mm, and 11mm

319564CE: 11 sizes: 1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8"

Part No.	Description	1	5
261489CE	10-piece combo wrench set ...	\$8.49	\$7.99
319564CE	11-piece combo wrench set	7.99	7.59

Combination Wrenches

Made from hardened, tempered, drop forged chrome vanadium steel. These wrenches have a straight open end and a 120° offset bi-hexagonal ring.



Part No.	Description	1	5
261702CE	9/16" wrench	\$6.39	\$6.09
261690CE	1/2" wrench	6.19	5.89
261681CE	7/16" wrench	5.69	5.39

Magnetizer/Demagnetizer

Magnetize tips of screwdrivers for easy pick-up of small metal objects; demagnetize tips to prevent electrostatic discharge that will damage electronic components.



- Size: 2.0"L x 2.0"W x 1.2"D

Part No.	Description	1	5
239530CE	Magnetizer/demagnetizer	\$6.29	\$5.66

Deluxe Precision Knife Set

- Three different knife handles – fine work, medium and heavy duty power grip
- Size: 6.3"L x 2.8"W x 1.4"H



Includes: 13 types of blades

Part No.	Description	1	10	25
72768CE	13 blade knife set ...	\$10.95	\$9.86	\$8.87

2-Piece Tweezer Set

- PVC insulated handles
- Serrated tips for parts handling
- Bent tip and straight rounded tip (wide tip)
- Length: 5.8"



Part No.	Description	1	10	25
253180CE	Tweezer set	\$2.99	\$2.69	\$2.45

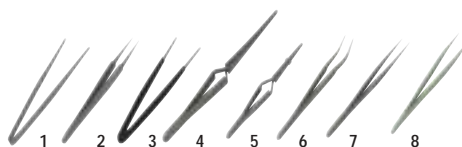
4-Piece Steel Tweezer Set



- 4 styles of stainless steel tweezers, one self-locking
- Ideal for picking up small components in hard-to-reach places

Part No.	Description	1	10	50
10735CE	4-piece tweezer set	\$7.95	\$6.95	\$5.95

Tweezers



- 253163CE: Straight, round tapered, wide-point tip
- 252929CE: Straight round tapered, fine-point tip, stainless steel
- 253121CE: Wide-tip, insulated
- 252945CE: Self-closing reverse-action tweezers; wide point tip; stainless steel
- 252937CE: Self-closing reverse-action tweezers; medium point tip; stainless steel
- 253091CE: Curved fine-point tip
- 252911CE: Straight fine-point tip
- 253112CE: Fine-point tip, insulated, anti-static

Part No.	Length	Photo	1	10	25
253163CE	4.5"	1	..... \$ .99	\$.89	\$.79
252929CE	4.75"	2	..... 2.25	1.99	1.79
253121CE	4.6"	3	..... 1.49	1.35	1.25
252945CE	6.6"	4	..... 2.59	2.35	2.09
252937CE	4.3"	5	..... 2.25	1.99	1.79
253091CE	4.6"	6	..... 2.25	1.99	1.79
252911CE	4.75"	7	..... 2.25	1.99	1.79
253112CE	4.75"	8	..... 2.25	1.99	1.79

Automatic Center-Punch Tool

Adjustable

- Precision instrument
- Alloy steel point
- Knurled steel body • Size: 5.0"L x 0.5"Dia.



Part No.	Description	1	10	50
160282CE	Center punch tool	\$5.95	\$5.39	\$4.85

T-Handle Reamer Tool

Excellent for aluminum chassis work

- For enlarging starter holes on panel mount components from 1/8" to 1/2" diameter
- T-handle for easy rotation of tool
- Handle: 3.3" long, tool: 5.3" long



Part No.	Description	1	10	25
151749CE	T-handle reamer tool ..	\$7.95	\$7.49	\$6.95

12-Piece File Tool Kit

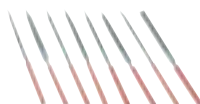
- Fine and coarse file assortment for metal and wood
- 3-piece metal flat; 2-piece metal triangle; 1 each wood round; metal round; wood half-round; metal half-round; metal/wood half-round; and 2 detachable handles



Part No.	Description	1	5
233314CE	12-piece file kit	\$12.95	\$9.75

8-Piece Steel File Set

- Strong tool steel
- 1 ea. 0.15"Dia., 0.13"Dia., 0.12"Dia., 0.11"Dia. and four 0.22"Dia. (5.65"L)



Part No.	Cross Ref. No.	Description	1	10
100360CE	FS108F	8-piece file set	\$9.95	\$8.95

Strip-Wrap-Unwrap Tool

- Tool tip made of tempered steel
- Spring steel cutter
- Use with 30 AWG wire on .025" square posts
- No solder necessary, see pg 93 for wire
- Wrap 1 to 2 turns of insulated portion of wire for secure connections • 4.5" long



Part No.	Cross Ref. No.	1	10	25
34585CE	HSM30 (Modified) ...	\$49.99	\$44.99	\$39.99
236785CE	HSR30 (Regular)	29.95	26.95	23.95

30 AWG Wire Wrap/Strip Tools

Recommended for use on 0.025" (0.63mm) square posts on 0.100" (2.54mm) center grids. The first 1-1/2 loop on the modified tool has wire insulation while all loops on a regular tool have bare wires.

- Knurled handle for easy grip
- 5" long



Part No.	Description	1	10	25
242801CE	Tool (Regular)	\$17.95	\$15.26	\$11.44
242798CE	Tool (Modified)	19.95	17.95	16.15
242827CE	Replace tip for 242801CE	8.49	7.65	5.80
242819CE	Replace tip for 242798CE	9.49	8.07	6.05
242835CE	Replace stripper assembly	5.49	4.67	3.50

IC Pin Straightener

Straighten bent pins safely and easily with Jameco's IC pin straightener.

- Straightens 8/14/16/18/20/24/28/40/42-pin ICs
- Materials: black plastic
- Size: 3.3"L x 1.5"W x 0.4"H



Includes: Ground terminal

Part No.	Description	1	10	100
99362CE	IC straightener	\$6.95	\$6.26	\$5.63

Order Anytime, Day or Night

Our friendly sales department will take your order 24x7x365 by phone, fax, web or email.

Trimmer Potentiometer Adjustment Pocket Tool

- Glass-filled body
- Stainless steel blade
- Size: 5.2"L



Part No.	Description	1	10	100
153314CE	Trimmer tool	\$1.35	\$1.22	\$1.09

Crimp Pin Extraction Tools

- Easily extract 0.093" locking pins from connectors
- Heavy duty metal
- Precision design • Length: 5"
- See crimp pins on pg 127 (42729CE and 42649CE)



Part No.	Prod. No.	Description	1	10
131887CE	HT319C	Male tool for 42729CE ..	\$10.95	\$9.86
131879CE	HT319B	Fem. tool for 42649CE	11.29	8.47

BNC Connector Removal Tools

- For deep chassis removal
- Allows access to hard-to-reach places



Part No.	Product No.	Length	1	10	25
159151CE	HT2206	6"	\$8.49	\$7.22	\$5.41
152047CE	HT2212	12"	14.99	14.25	13.53

D-Sub Pin Insertion/Extraction Tool

- Insertion/extraction tool: red/white plastic body; exchangeable tips



Part No.	Description	1	10	100
19094CE	Insert/extract tool	\$2.79	\$2.49	\$2.15

Extraction Tools for Molex Connectors



- 142156CE/227467CE: For .062" power connectors
- 142236CE/227395CE: For .093" power connectors
- 236128CE/234940CE: For .100" KK® series housing

Part No.	Product No.	AWG	1	10
142156CE	W-HT-2285	18-30	\$14.49	\$13.49
227467CE	W-HT-2023	18-30	11.99	10.99
142236CE	W-HT-2038	14-30	14.49	13.49
227395CE	W-HT-2054	14-30	11.99	10.99
236128CE	W-HT-1884	22-30	9.99	8.99
234940CE	11-03-0022	22-30	14.99	12.99

See pages 110 – 112 for Molex Connectors.

Bushing Assembly Tool

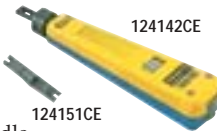
- For use with strain relief bushings, right



Part No.	Description	1	10	100
73470CE	Bushing tool	\$34.95	\$28.75	\$28.45

Impact Punch-Down Tool

Conforms to AT&T performance specification. Reversible clip-in blade, adjustable spring-loaded impact mechanism and spare blade storage in the handle.



- One-year warranty
- 124142CE: For 66-type bifurcated terminals
- Size: 7.0"L x 1.4"W x 1.1"H
- 124151CE: Blade for 110-type terminals

Part No.	Description	1	10
124142CE	# 3527 Tool with 66 blade ...	\$53.19	\$50.53
124151CE	110 blade	17.99	13.49

Impact Punch-Down Tools

- Reversible clip-in blade
- Adjustable (HI-LO) spring-loaded impact mechanism
- Storage bin on handle for spare blade



- 175071CE: Tool with blade
- For 66-type terminals
- Size: 5.2"L x 1.5"W x 1.0"H
- 324013CE: Tool with blade
- For 110-type terminals
- Size: 5.8"L x 1.7"W x 1.2"H
- 175089CE: Punch-down blade 110-type terminals



Part No.	Description	1	10
175071CE	Tool with 66 blade	\$34.95	\$31.46
324013CE	Tool with 110 blade	37.39	33.65
324021CE	Punch-down blade 66	14.95	13.49
175089CE	Punch-down blade 110	14.95	11.50

Data SureStrip™ Universal Cable Cutter/Stripper

This multi-purpose tool is an easy-to-use universal cable cutter and stripper for data, telephone, and network installations.

Paladin Tools®



- Cuts and strips multiple cable types: 4/6/8-conductor flat satin cables; 4/6/8-conductor UTP/STP data cables, 25-pair UTP/STP data and telephone cables; multi-conductor round bundled cables of up to 0.5" diameter; 8-14 AWG wire
- Fully adjustable with simple thumb screw
- Length: 4.5" • One-year warranty

Part No.	Product No.	1	5
230447CE	1116	\$17.15	\$15.57

Cable Slitter/Stripper

AM25 Slitter with 2109 blade

Strips and slits round cables with PVC, Teflon, and THNN insulation from 0.18"–1.0" diameter.



Paladin Tools®

- Adjustable cutting depth to 0.18" • Length: 5.3"
- Swivel blade for circular, longitudinal & spiral cuts
- Cable holding clip with integrated edge for removing slit insulation • Spare blade in handle
- Lifetime tool warranty; one-year on blade

Part No.	Prod. No.	Description	1	5
230404CE	1820	Cable slitter/stripper	\$37.95	\$36.05
236769CE	2109	Blade for 1820	14.59	12.29

CrimpALL® Crimpers for RG58/59/62AU & RJ45

Paladin Tools®

- Fully-ratcheting crimp cycle with built-in safety release
- Soft-rubber embedded handles
- Rugged, double-plated jaw, designed to increase life span
- Higher crimp force produced with less hand force
- No break-over hand force – less effort by the user to make the last click before making a complete crimp, the CrimpALL does all the work
- EZI-Change™ die screws makes changing dies quick and easy • Length: 9.9" • Weight: 1.3 lbs.



- 230341CE: For RG58/59/62AU with 2034 die
- 230332CE: For RJ45 (8P8C) with 2061 die
- ☺ Blue Part No. = Limited Quantity Available

Part No.	Product No.	1	5
230341CE	8001 ☺	\$54.45	\$49.47
230332CE	8030	54.75	49.76

Crimpers for Twisted Pair Cable and BNC/TNC

Paladin Tools®

- Fully-ratcheting cycle with built-in safety release
- EZI-Change™ die screws
- For RJ45 (8P8C) crimps
- 22-28 AWG flat/round, solid/stranded wires
- For 2 or 3 piece BNC/TNC connectors crimps
- RG58/RG59/RG62AU cables
- Length: 8.9"
- 230421CE: Twisted pair crimper with 2061 die
- Crimps 22-28 AWG flat/round, solid/stranded wires
- For RJ45 (8P8C)
- 230412CE: BNC/TNC crimper with 2034 die
- Crimps RG58/59/62AU cables
- For 2 or 3 pcs. BNC/TNC



SALE

Part No.	Product No.	1	5
230421CE	1307	\$44.65	\$40.59
230412CE	1317	44.65	40.59

Electroluminescence Wires



Imagine the possibilities of transforming ordinary objects with high tech visual effects. Wrap these fluorescent wires around any objects such as musical instruments, models, science projects, and presentation boards. Super charge your projects with brilliant colors.

- Powered by 2 AA batteries
- Length: 4.5'

velleman

Part No.	Product No.	Color	1	10	25
263484CE	NWRB15	Blue	\$21.95	\$20.95	\$19.95
263505CE	NWRG15	Green	21.95	20.95	19.95
263492CE	NWRR15	Red	21.95	20.95	19.95

Vacuum Tweezers

Pick & place small parts of all kinds: glass slides, coins, optics, SMDs, film, etc.

- Size: 2.9"L x 0.6"W
- One-year warranty

Includes: 5 pads sizes 0.14" to 0.4"; 5 straight tips and 2 pieces 45° angle tips



Part No.	Description	1	10
88268CE	Vacuum pick & place kit	\$29.95	\$27.95

4-Piece Conductive SMD Tweezer Set



- 4 types of tweezers: fine point, flat head for 4mm SMD chip device, flat head for 8mm SMD chip device, sharp angled tip
- Each is 4.5" long

Part No.	Description	1	10	25
172638CE	4-piece tweezer set	\$11.95	\$10.95	\$9.95

PLCC Surface Mount and DIP IC Extractors



- Size: 4.0"L x 2.0"W (both)

Part No.	Product No.	Description	1	10	100
16766CE	HT103B	PLCC ...	\$3.95	\$3.55	\$3.19
16838CE	HT103A	DIP	1.49	1.25	1.09

SMT — Show Me the Tweezers

So when you're ready to work with surface mount devices, how do you handle them?

Sure, needle nose pliers can grab, but they can also damage your device. When soldering, they sink tremendous amounts of heat too!

My recommendation is to always have a set of conductive tweezers handy. They're inexpensive, prevent ESD and limit device damage. Keep your devices safe... the set of tweezers like the ones above are just under \$12.

And if you want convenience too, I'd recommend getting the vacuum tweezers above. A tiny draw of air grabs thin components for a more assured hold. Just \$29.95 provides you considerably greater grip!

Practical Practices
Money Saving Tips for the Engineer

Jameco's Got the Docs

We offer free technical documents for most of the products we carry. Find them easily on the product specification pages at www.Jameco.com

3X, 3-Bulb Adjustable Magnifying Lamp

Adjustable rectangular 3-diopter lens allows independent movement of the lens for best lighting and viewing angles. Three 9-watt compact fluorescent bulbs located to the side and top of the lens provide superior lighting to your workspace or job at hand. The integral spring-balance arm reduces the chance of pinched hands from springs, and provides a sleek clean look.

- 47" long arm
- 2 on/off buttons
- Color: beige
- UL listed
- Weight: 8.15 lbs.

Part No.	Description	1	10	25
217517CE	Adj. magnifying lamp	\$79.95	\$74.95	\$69.95

3X Magnifying Lamps

- 45" extension arm
- Supplied with 22-watt circuline tube
- New wire clip design permits easy installation
- Extra strong, all-metal mounting base with electrical outlet
- Metal bulb holder for extra protection
- Power requirement: 110VAC/60Hz
- 3X magnification
- Weight: 7.3 lbs.

Part No.	Description	1	10	25
100829CE	Black lamp	\$59.95	\$53.95	\$49.95
149981CE	White lamp	59.95	53.95	49.95

Standard Adjustable 3X Magnifying Lamp

- 4" Diameter lens
- Maneuverable 30" arm extension
- Lamp tilts & turns in any direction
- Uses 60W incandescent bulb (not included)
- Power requirement: 110VAC/60Hz
- 3X magnification
- Weight: 2.9 lbs.

Part No.	Description	1	10	25
22710CE	Magnifying lamp	\$26.49	\$25.19	\$23.89

Precision 5X Magnifying Lamp

The arm extends to 40", is adjustable to any direction or angle, and has a 5X magnifying glass with built-in light. This is the perfect tool to help identify small electronic components and magnify a printed circuit board to help solder electronic components.

- 5" diameter lens
- Weight: 7.1 lbs.
- Power requirement: 110VAC/60Hz

Includes: 22W circuline fluorescent bulb

Part No.	Description	1	10	25
197456CE	Magnifying lamp	\$109.95	\$98.95	\$88.95

General Purpose Illuminated 3X Magnifier

- Great for magnifying fine print
- 75mm diameter lens
- Light requires 2 AA batteries, below
- Size: 7.5"L x 3.75"Dia.

☼ Blue Part No. = Limited Quantity Available

Part No.	Description	1	10	25
149542CE	Illuminated magnifier	\$4.19	\$3.56	\$2.84
151087CE	1.5V AA battery (req. 2)	.20	.17	.16

Flexible Neck Magnifier

Never squint again at small fine print or have a hard time holding a magnifying glass while holding two other tools with only two hands. Just simply clamp the magnifying lens on to a table or workbench and adjust the flexible gooseneck into position.

- 3.5" diameter & 3x diopter lens
- Arm length: 20"
- Weight: 1.8 lbs.

Part No.	Description	Price
239548CE	Flexible neck magnifier	SALE \$11.49

3X Magnifier with Adjustable Stand

- Heavy duty steel base
- Size: 15"L (full stand) x 4"Dia. (base)

Part No.	Description	Wt. (lbs.)	1	10
148881CE	Magnifier	2.5	\$13.95	\$12.56

Tweezers with 8X Magnifier

The perfect combination hand tool for professionals working with small objects. Magnifying glass stays in perfect focus with tweezer heads.

- Stainless steel construction
- Precision tip tweezers
- 1.2" diameter 8 diopter lens
- Length: 3.8"

Part No.	Description	1	5
217824CE	Tweezer magnifier	\$6.29	Quantity SAVE \$4.80

Super Bright, Super Reliable LED Flashlights

The perfect tool for individuals who really depend upon a flashlight that always works. Containing space-age solid-state circuitry, batteries last 14X longer than conventional flashlights. Its super bright white LEDs will last at least 11 years.

- Waterproof, designed for all weather conditions
- Shockproof, withstands a drop from 4'
- Low cost per hour of operation
- Industrial grade switch, rated for 10,000 operations

215677CE: One month continuous operation using three "D" cell batteries (not included, P/N 215845CE, pg 206) • Wt.: 0.8 lbs.

215685CE: 25-days continuous operation using three "C" cell batteries (not included) • Wt.: 0.6 lbs.

215693CE: 14-days continuous operation using 3 "AA" cell batteries (not included, P/N 198707CE, pg 206)

262422CE: 210 hours of continuous operation using 3 "AAAA" batteries (included)

261972CE: Headtorch delivers 330 hours of continuous operation using 3 "AA" batteries (not included, use P/N 198707CE, pg 206)

Part No.	Cross Ref. No.	LEDs	Length	1	10
215677CE	LW-4000	10	10.6"	\$63.95	\$60.79
215685CE	LW-3000	7	8.9"	49.95	44.96
215693CE	LW-2100	4	7.9"	31.95	29.63
262422CE	LW-TEC1000	1	—	21.79	20.89
261972CE	LW-HT	4	—	37.95	34.16

33' Measuring Tape

Retractable measuring tape's case has a rubber finish for easy grip and yellow contrast for easy visibility.

- 1" wide
- Metric and inches with 1mm and 1/16" scales
- Triple riveted magnetic end hook
- Bottom & side buttons for temporary tape lock
- Front thumb lock for permanent locking of tape measure
- Belt clip and strap

Part No.	Description	1	5
261833CE	Measuring tape	\$9.35	\$8.49

Digital Display Calipers

Metric or Inches

- Hardened stainless steel
- Display: inches to 0.001; mm to 0.01
- Instructions for making internal, external, depth & step measurements
- Calipers measure to 6 inches/150mm
- One-year warranty

Includes: Fitted case and 1.5V silver oxide battery (replacement battery, P/N 140783CE, pg 206)

Part No.	Description	1	10	25
127482CE	Digital disp. calipers	\$64.95	\$58.46	\$52.61

Metal Dial Calipers

Metric or Inches

- For accurate measurements every time
- Measures outside, inside and depth
- Easy-to-read dial gauge
- Length: 6" (150mm)
- Materials: metal
- Color: silver

Includes: Fitted plastic storage case

Part No.	Description (min. reading)	1	10	25
116134CE	Metric (.02 mm)	\$29.95	\$26.96	\$24.26
116126CE	Inches (.001 inch)	29.95	26.96	24.26

Have You Seen Our New & Improved Website?

We've added parametric search to make it easier to find what you're looking for. Visit us at www.Jameco.com



Protective Coiled Grounding Wrist Strap

- Comfortable, adjustable Velcro wrist strap
 - The coiled cord has banana plug and alligator clips
 - Extended cord: 9' long • Color: black
- Includes:** 1MΩ resistor for added safety



Part No.	Description	1	10	100
34551CE	Anti-static strap	\$6.49	\$5.85	\$5.29

Conductive Anti-Static Foam and Bags

Don't get zapped!

Protect your investment with these inexpensive bags and ensure a safe work area with our conductive anti-static foam.

- For safe storage of static sensitive devices

13864CE: 24.0"L x 12.0"W x 0.25"H

* Prepackaged: order in increments of 5



13864CE



78668CE

Part No.	Description	1	5
13864CE	Anti-static foam	\$9.29	\$8.35
78668CE	4" x 6" anti-static bags	*	.19
78650CE	8" x 10" anti-static bags .....	.69	(.51)

3M Disposable Anti-static Wrist Strap

Disposable wrist strap for one time use and low durability applications. A hypoallergenic adhesive provides 360° contact with the skin to minimize skin-to-band resistance. The conductive adhesive on the copper foil adheres to any convenient electrical ground. A current limiting resistor is fabricated into the plastic ribbon below the wristband. One size fits all.

- Ship along with components and devices such as integrated circuits and computer peripheral cards

Part No.	Product No.	1	10	25
285456CE	3M 2209	\$1.25	\$1.17	\$1.11

Anti-Static Work Mats

Make your work environment safe from static discharge!

These mats are made of attractive semi-conductive vinyl that provide adequate discharging, yet will not short leads or pins.



236540CE

Part No.	Dimensions	Wt. (lbs.)	1	10	100
10575CE	11.3" x 22"	0.7	\$9.95	\$8.96	\$8.06
10583CE	19.5" x 23.5"	1.1	\$13.95	\$12.59	\$11.35
236540CE	23.5" x 27.5"	1.4	\$24.95	\$22.49	\$20.19

Soldering Products

300-Watt Solder Pot

Temperature Regulated Between 420°C and 450°C

- HI/LO temperature switch
- 2 conductor power cord: 5' 9" long
- Holds up to 1 bar of P/N 176057CE or 170464CE, below
- Input voltage: 110VAC @ 2.7A; 50-60Hz
- Size: (unit) 4.8"H x 5.5" Dia. (base) • Weight: 5.9 lbs.
- Size: (tub) 2.4"Dia. x 1.6"D • One-year warranty



Part No.	Description	1	10	25
160303CE	300W solder pot ...	\$64.95	\$58.49	\$52.65

600-Watt Solder Pot

Temperature Adjustable

- 2-wire power cord (5'5")
- Temperature: 0°C to 500°C
- Self regulating temperature
- Input voltage: 110VAC @ 5.5A
- On-off power switch and LED indicator for heat
- Holds up to 3 bars of P/N 176057CE or 170464CE, below
- Size: (unit): 6.8"L x 5.5"W x 2.8"H
- Size: (tub): 3.9"L x 1.6"D • Weight: 7.4 lbs.

Includes: Skimmer and removable dross tray



Part No.	Description	1	10
172275CE	600W solder pot	\$189.95	\$146.25

2000-Watt Solder Pot

- Thermostat control for setting temperature from 50°C to 300°C
- Holds up to 48 bars of P/N 176057CE or 170464CE, right
- Input voltage: 110VAC @ 18A, 50-60Hz single phase
- 3 conductor pigtail power cord: 5' long
- Size: (unit): 18.1"L x 11.5"W x 6.0"H
- Size: (tub): 12.0"L x 8.0"W x 2.9"H
- Weight: 23.1 lbs. • One-year warranty



Part No.	Description	1	5
149876CE	2000 watt solder pot	\$399.95	\$359.95



Fume Extractor and Filters

Absorbs noxious lead fumes using activated-carbon filter and a high-efficiency fan

- Operate continuously providing filtered air • Static ground jack
- Air flow: 115 CFM • Fuse protected
- 120VAC, 60Hz, 22 watt
- Noise: 49dB fan • Aerodynamic hood design for effective removal of solder fumes • Black anodized aluminum case
- Removable carbon-impregnated filter
- Compact size allows use on work bench w/ minimum space • Size: 6.4"W x 4.6"D x 7.9"H
- Weight: 4.6 lbs. • One-year warranty

Includes: Detachable power cord

Part No.	Description	1	10	25
120150CE	Fume extractor	\$58.95	\$52.95	\$47.79
127183CE	Replace. filters (2/pk)	12.95	11.66	10.49



Combination 42-Watt Soldering Station and Fume Extractor

- Power consumption: 42W @ 650°F (soldering iron)
- Adjustable knob for temp. control: 500° to 800°F • Stability @ idle: ±9°F
- Max. air volume: 95/115CFM
- LED indicator for pilot light
- Electronic zero-voltage switching
- Input voltage: 100-120VAC @ 60Hz
- Size: 6.4"W x 7.8"H x 4.7"D • Weight: 5.2 lbs.

Includes: Soldering iron, iron holder, sponge, carbon activated filter, power cord and manual

Part No.	Product No.	1	10
183169CE	456DLX	\$89.95	\$86.29



Solder Bars

- Used for soldering pots
- Tin/lead: 60/40 & 63/37
- Size: 13"L x 0.9"Dia.

Part No.	Description	Wt. (lbs.)	1	10	25
176057CE	60/40	1.1	\$8.49	\$7.65	\$6.89
170464CE	63/37	1.8	\$11.95	\$11.33	\$10.77



170464CE

Anti-Static Heel Strap

- Discharges static without restricting your mobility
- Ideal for anyone handling static sensitive devices
- Ground strap: 15.5"L



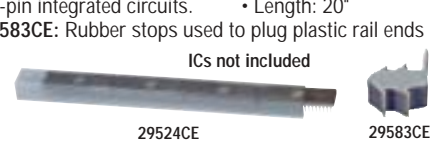
Part No.	Description	1	10	100
100327CE	Heel strap	\$5.49	\$4.99	\$4.55

Anti-Static Plastic DIP IC Storage Tubes and Rubber Rail Stops

29516CE: Thin tube (rail) fits 8, 14, 16, 18, 20 and 22-pin integrated circuits. • Length: 23.75"

29524CE: Wide tube (rail) fits 24, 28, 32, 40 and 48-pin integrated circuits. • Length: 20"

29583CE: Rubber stops used to plug plastic rail ends



29524CE

29583CE

* Prepackaged: order in increments of 10 or 100

Part No.	Cross Ref. No.	Description	1	10	100
29516CE	RIC20	Thin rail	\$.49	\$.44	\$.40
29524CE	RIC220	Wide rail .....	.49	.31	.19
29583CE	RRS	Rubber stop	*	.07	(.053)

Electric & Manual Desolder Pumps

- Easily disassembled for cleaning
- Replacement tips available



19254CE:

- UL listed
- One-hand operation
- Size: 10.5"L x 1.0"Dia.

19166CE: Size: 7.8"L x 0.8"Dia.

305218CE/305226CE: Size: 13"L x 1.0"Dia.

Part No.	Description	1	10
19254CE	Electric desolder pump	\$26.95	\$23.95
19166CE	Manual desolder pump	4.95	4.49
305218CE	Manual desolder pump	18.95	17.99
305226CE	Man. desolder pump (ESD safe)	14.75	13.99
19262CE	1 tip for 19254CE	4.95	4.49
22091CE	2 tips for 19166CE	4.49	3.95
307774CE	1 tip for 305218CE	4.55	4.35
307782CE	1 tip for 305226CE	2.39	2.27



19254CE

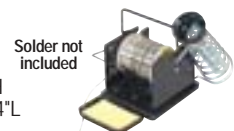
305226CE

305218CE

19166CE

Solder Spool & Iron Stand

- 4 pc. spool stand (some assembly required)
- Shaft diameter: 0.6"
- Size: 6"L x 3.5"W x 3.1"H
- Sponge size: 1.6"W x 2.4"L
- Weight: 2.0 lbs.



Solder not included

Part No.	Description	1	10	100
169551CE	Spool & iron stand	\$16.95	\$15.29	\$13.75

Solder Spool Stand

- 12 pc. solder spool stand (some assembly required)
- Size: 3.6"W x 3.9"D x 4.3"H
- Shaft dia.: 0.6"
- Weight: 1.6 lbs.



Solder not included

Part No.	Description	1	10	100
141760CE	Solder spool stand ...	\$8.95	\$7.95	\$6.95

Weller® 40-Watt Soldering Station

- Lighted on/off switch
- Adjustable power from 5 watts to 40 watts
- 120V @ 60Hz
- Temperature is electronically controlled from 350°F to 850°F
- Size: 5.5"L x 4.5"W x 3.5"H
- Weight: 1.9 lbs.

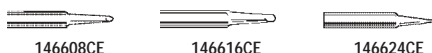


Includes: ST3 1/8" screwdriver tip, soldering station and manual

Part No.	Prod. No.	Description	1	10
146595CE	WLC100	Soldering station	\$48.95	\$44.09

Weller® Soldering Tips

Replacement Tips for WLC100, WP25 & WP23



Part No.	Prod. No.	Description	1	10
146608CE	ST1	Screwdriver tip 1/16"	\$5.95	\$5.35
146616CE	ST3	Screwdriver tip 1/8"	5.95	5.35
192145CE	ST6	Screwdriver tip .031"	5.25	4.75
146624CE	ST7	Conical tip 1/32"	5.95	4.95

Weller® 42-Watt Controlled-Output Soldering Station

- Transformer powered soldering station complete with macro style, low voltage, temperature controlled soldering iron
- Closed loop method of controlling maximum tip temperature for protection of temperature sensitive components
- 120VAC @ 60Hz input
- Power unit housing features impact resistant plastic for durability
- Quick disconnect plug for soldering iron and lighted on/off switch
- Separate conductor grounds iron tip and terminates third pin of power cord
- Uses PT series tips
- Size: 5.9"L x 4.5"W x 3.6"H
- Weight: 4.0 lbs.



Includes: Soldering iron and PTA7 tip (below)

Part No.	Prod. No.	Description	1	10
170552CE	WTCPT	Solder station	\$129.95	\$124.95
192161CE	TC201T	Replac. iron	68.95	62.05
192170CE	PTA6	.062" screwdriver tip (600°F)	6.95	6.25
192188CE	PTA7	.062" screwdriver tip (700°F)	5.69	5.15
192196CE	PTA8	.062" screwdriver tip (800°F)	5.69	5.15

Vacuum Pen Tools



- ESD safe body
- Picks up components with weight of 1.1 lbs. or less
- 207239CE: 4 tips and cups
- 207247CE: Aluminum body; 6 tips and cups

Part No.	Description	1	10	25
207239CE	Handivac tool	\$19.99	\$17.99	\$16.19
207247CE	Pen vac tool	37.95	34.25	30.49



Soldering Station and Irons

- Gun-style Desoldering Station
- Portable Desoldering Tool w/ a Built-in Vacuum Pump
- Hakko 936 ESD Soldering Station
- Cordless Soldering Iron

These products ship from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

NEW
ON THE WEB



See Our Complete Hakko Soldering Stations and Irons Offering at www.Jameco.com/Prod/Hakko

50-Watt Analog & Digital Display Soldering Stations

Innovative heater and sensor combination for quick heat-up and rapid temperature recovery

- Tip temperature offset capability allows user to reset temperature readings to match tip size and style
- Wireless temperature lockout
- Auto power-down after 90 minutes of inactivity
- Temperature range: 350°F to 850°F
- Temp. accuracy: $\pm 9.0^\circ\text{F}$
- ESD safe
- Size: 5.9"L x 4.5"W x 3.6"H
- Weight: 4.0 lbs.



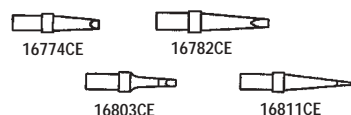
Includes: PES51 50W soldering iron with ETA tip, PH50 stand and sponge, and adjustment tool

Part No.	Product No.	Description	1	10
217461CE	WES51	Analog	\$115.95	\$105.95
233533CE	WESD51	Digital	158.95	150.99

Weller® Soldering Tips

Replacement Tips for WES51 & WESD51

- Tip leakage: less than 2mV
- Tip to ground resistance: less than 2 Ω
- Additional tips can be special ordered



Part No.	Prod. No.	Description	1	10
16774CE	ETA	Screwdriver 1/16"	\$6.95	\$6.25
16782CE	ETJ	Long screwdriver 1/32"	6.95	6.25
16803CE	ETR	Narrow screwdriver 1/16"	6.95	6.25
16811CE	ETS	Long conical 1/64"	6.95	6.25



60-Watt Analog Display Soldering Station

Maintains a steady temperature using a cartridge heating element, providing a longer life for the solid soldering tip.

- Electronic temperature control: 300°F to 850°F
- CMOS devices protected against voltage spikes
- Size: 4.3"W x 6.0"D x 3.4"H
- Weight: 4.1 lbs.

Includes: One 1/16" tip (P/N 35115CE, pg 266)

Part No.	Product No.	Description	1	10	25
236460CE		Replacement sponge			
236110CE	168-3C		\$89.95	\$79.95	\$72.95
236460CE	78-744615		2.99	2.69	2.49



65-Watt Soldering Station with Micro Soldering Pencil

The micro soldering pencil has the shortest tip-to-grip distance on the market today, giving you excellent control by putting you closer to the work. The heating element is contained in the pencil rather than the tip so you do not throw away a good heater every time you wear out a tip.

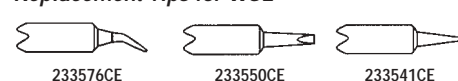
- Fast heat-up and thermal recovery
- Tips are secured to the pencil by use of a threaded end, eliminating the use of a barrel nut
- Temperature is reduced to 300°F (150°C) when pencil is not used for 20 minutes. Unit is switched off after 60 minutes of inactivity
- ESD safe to protect sensitive components
- Voltage: 120V input; 24V output
- Temperature range: 150°F-850°F (66°C-454°C)
- Temperature accuracy: $\pm 9^\circ\text{F}$ ($\pm 5^\circ\text{C}$)
- Temperature stability: $\pm 10^\circ\text{F}$ ($\pm 6^\circ\text{C}$)

Includes: WSLPU power unit, WMP soldering pencil with NT1 tip, and WMPH iron stand

Part No.	Product No.	Description	1	5
227408CE	WSL		\$255.95	\$237.95

Weller® Soldering Tips

Replacement Tips for WSL



Part No.	Prod. No.	Description	1	5
233576CE	NT1X	0.8mm bent round	\$10.45	\$9.91
233550CE	NTA	0.6mm chisel	7.59	7.25
233541CE	NT1	0.25mm micro	9.99	8.29



SMD Rework Station

With this system, replacement of surface mount devices or dual-in-line components is a snap. It not only increases productivity in SMD assembly repair, but achieves a new standard of quality, superior performance, and ease of operation.

- High-performance, inexpensive, versatile
- Adjustable temp.: 250°C - 450°C (482°F - 842°F)
- Thermocouple sensor for stable temperature
- Long-life ceramic heating element
- Rapid heat-up and recovery
- 40W station, 25W ceramic element
- Size: 7.4"L x 5.0"W x 3.3"H
- Weight: 2.6 lbs.

Includes: Base power unit, sponge, stand, surface mount tweezer iron, and stand for tweezers

Part No.	Description	1	10	25
224629CE	Rework station	\$89.95	\$80.99	\$72.85
168583CE	.078" tip	11.95	10.79	9.69
168591CE	.590" tip	12.95	11.69	10.49





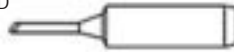
Soldering Tips

- Chisel/Long chisel/Long conical for 900M, 907, 913 irons
- Tips for 950 SMD

These products ship from a separate warehouse and may not ship the same day.
Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

See Our Complete Hakko Soldering Tips Offering at www.Jameco.com/Prod/Hakko

NEW
ON THE WEB



16 to 30-Watt Variable Soldering Iron, Stand & Sponge

116572CE:

- Length: 7.5"

36329CE:

- Black anodized steel base – 5.3"L x 3.3"W
- See below for replacement sponge (P/N 134631CE)
- Fits most soldering irons .85" diameter

Includes: Sponge

Part No.	Description	1	10	100
116572CE	Soldering iron	\$16.95	\$15.29	\$13.75
36329CE	Soldering stand	4.95	4.46	4.01
134631CE	Sponge (for P/N 36329CE)	2.99	2.69	2.49



Thermally Balanced 25-Watt Soldering Iron

The XY200GX is a thermally balanced soldering iron for the professional or hobbyist.

- 120VAC; 6' cord
- 25-watt power consumption
- Interchangeable tips (pg 266)
- UL listed
- Length: 8.0"
- One-year warranty

Includes: 1.6mm conical tip

Part No.	Description	1	10	25
129040CE	25W solder. iron	\$11.49	\$10.35	\$9.35

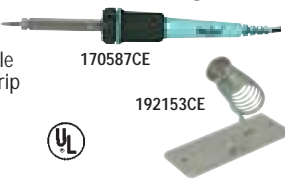


Weller® High-Quality 25-Watt & 35-Watt Soldering Irons

- Interchangeable heater elements
- Lightweight handle with cushioned grip
- Quick change knurled collar
- Length: 9"
- 120VAC @ 60Hz

Includes: Power cord & ST3 tip (pg 264).

Part No.	Product No.	Description	1	10
170587CE	WP25	25W solder iron	\$32.95	\$31.35
192102CE	WP35	35W solder iron	39.95	35.95
192153CE	PH25	Solder iron stand	16.95	16.19



Weller® 100-Watt Soldering Iron

- "Closed loop" method of controlling maximum tip temperature
- Nominal heat-up time with 700°F tip is 110 seconds
- Length: 6"
- 120VAC @ 60Hz input
- Weight: 0.7 lbs.

Includes: CT6F7 (0.375" screwdriver tip; 700°F)

Part No.	Prod. No.	Description	1	5
192081CE	W100PG	Solder iron	\$62.95	\$59.79
192090CE	CT6F7	.375" scrwdrv tip	8.59	7.75



Special! Low-Cost Irons

30-Watt Soldering Iron and Stand

- UL approved
- Ideal for precision work
- 1/4" removable tip
- Length: 8.3"
- 110-120VAC

Part No.	Description	1	10	100
102461CE	30W soldering iron	\$4.99	\$4.49	\$4.04
116020CE	Replacement tips (2)	2.25	1.91	1.43
36329CE	Soldering stand	4.95	4.46	4.01



35-Watt Soldering Iron

- UL approved
- Ideal for maintenance and hobby use
- 0.157" removable tip
- Length: 8.1"
- 110-120VAC

Part No.	Description	1	10	100
208987CE	35W soldering iron	\$2.99	\$2.69	\$2.45
208995CE	Replacement tips (2)	.99	.89	.67
209074CE	Solder roll, 8mm (.031")	5.49	4.94	3.95



Economical, High-Performance Soldering Irons

High-quality soldering irons that are suitable for both professional and do-it-yourself applications.

- 25W, 40W, & 60W
- Length: 9"
- 120VAC; 6' cord with 3-prong plug

Tips for 224611CE/224602CE:

226000CE chisel; 226018CE conical

Tips for 195223CE:

226026CE chisel; 226034CE conical

Part No.	Product No.	1	10	25
224611CE	200PHG-25W	\$7.95	\$6.76	\$5.07
224602CE	200PHG-40W	8.95	8.06	7.25
195223CE	200PHG-60W	13.95	12.49	12.11
226000CE	44-240517 tip	.95	.85	.79
226018CE	44-240513 tip	.95	.81	.61
226026CE	44-240617 tip	1.95	1.66	1.24
226034CE	44-240603 tip	1.95	1.66	1.24



SMD Tweezer Iron

- Maximum efficiency ceramic heating elements insures rapid heat-up and instant heat recovery
- Max. temp.: 760°F
- Heater insulation exceeds 100MΩ
- 120VAC
- Heater power consumption: 35W ea.

Includes: 0.095" tip

Part No.	Description	1	10	25
168410CE	Tweezer iron	\$59.95	\$53.95	\$48.95
168583CE	Tip .078"	11.95	10.79	9.69
168591CE	Tip .590"	12.95	11.69	10.49



Butane-Powered Cordless Soldering Iron and Tips



This butane-powered soldering iron is designed for many popular cordless applications. Most common are automotive repair, aviation, electrical components, field repair, shrink tubing, television repair and more.

- Cordless, simple operation in the shop or field
- No electrical interference
- Automatic ignition
- Up to 200 minutes of operation in a full load
- Soldering temperature range: 240°F to 1000°F
- Torch temperature: 2400°F

Part No.	Cross Ref. No.	Description	1	5
255265CE	PRO-120	Soldering iron	\$44.95	\$42.69
262107CE	S-30	Tip, deflector	1.19	1.09
255273CE	PS-1	Tip, 1/32" flat	8.99	8.75
255290CE	PS-2	Tip, 3/32" flat	8.99	8.75
255302CE	PS-3	Tip, 1/8" flat	8.99	8.75
255311CE	PS-4	Tip, 3/16" flat	8.99	8.75
255329CE	PS-5	Tip, 1/32" chisel	8.99	8.75
255337CE	PS-6	Tip, 3/32" chisel	8.99	8.75
255361CE	PS-9	Tip, hot knife	8.99	8.75
255370CE	PS-10	Tip, hot blower	8.99	8.75

Weller® Cordless Soldering Iron Kit

- Self igniting and instant heat
- Adjustable temperature (25W to 125W)
- Auto switch off
- Visible gas level
- Additional tips can be special ordered
- 2 hours of heat on average tank setting

Includes: Soldering tool, hot blower tip, hot knife tip, 2.4mm and 4.8mm double flat tip, cleaning sponge, storage case and instruction manual

Part No.	Prod. No	Description	1	5
152207CE	PSI-100K	Tool kit	\$79.95	\$75.95



WAHL® Cordless Soldering Iron

The #1 choice for field service soldering!

IsoTip® Power Pro Model #7904

- 900°F tip temperature
- LED indicator light
- Solders 200+ joints or up to 30 minutes of continuous soldering
- Iron performance equivalent to 25-watt iron
- Weight: 1.1 lbs.

Includes: Soldering iron, recharging stand, NiCd battery pack, and tips

Part No.	Description	1	10
132783CE	Power Pro cordless iron	\$61.95	\$58.85



Color Code Legend

New Sale Lower\$ QtySave

Order 24/7 Toll Free 1-800-831-4242

Soldering and Soldering/Desoldering Stations

Color Code Legend
New Sale Lower\$ QtySave

45-Watt Analog Display Soldering Station

Grounded Soldering Tip

- 500°F to 850°F • Fully grounded
- Insulated ceramic heating element for rapid heat-up and heat recovery
- Heater insulation exceeds 100MΩ
- Zero voltage circuitry eliminating high voltage spike and magnetic field generation
- Size: 7.0"L x 4.5"W x 3.5"H • Weight: 2.5 lbs.

Includes: Manual, soldering iron w/ 1/32" tip, stand, tip cleaner and sponge

Part No.	Product No.	Description	1	10	25
229673CE	XYT379-C	45-Watt soldering station	\$59.95	\$53.95	\$48.95
156814CE	XYB01	Sharp conical chisel 1/32" tip	4.95	4.49	3.95
156822CE	XYB04	Conical chisel 1/16" tip	4.95	4.49	3.95
134631CE	SP715	Replacement sponge	2.99	2.69	2.49

60-Watt Soldering Stations

Designed for soldering situations where precise temperature is required for sensitive components.

- Temperature is maintained at ±6°F
- Electronic temperature control from 392° to 878°F
- External calibration port
- CMOS devices protected against voltage spikes
- Power-on and heater-on LED indicators
- Size: 5.1"W x 8.0"D x 4.0"H • Weight: 4.8 lbs.

Includes: One 1/16" tip (P/N 35115CE – below)

Part No.	Product No.	Description	1	10	25
236101CE	XY9-60D/ESD	Digital soldering station – ESD safe	\$109.95	\$99.95	\$89.95
219627CE	XY9-60A	Analog soldering station	99.95	89.95	79.95
168401CE	TWZ50ESD	SMD tweezer iron w/ 0.078" tip	74.95	67.46	60.71
168583CE	46-060102	Tip .078" for P/N 168401CE	11.95	10.79	9.69
168591CE	46-060115	Tip .590" for P/N 168401CE	12.95	11.69	10.49
236460CE	78-744615	Replacement sponge for both stations	2.99	2.69	2.49

60-Watt Desoldering & Solder/Desoldering Stations



- Simple fine tune feature to select within 300–850°F range
- Vacuum pump activated "on demand" using finger tip switch on desolder handle
- CMOS devices protected against voltage spikes

125508CE:

- Size: 9.2"L x 7.2"W x 3.6"H
- Weight: 13.1 lbs.

Includes: XYD12 tip and solder holder

125516CE/223853CE: Size: 11"L x 10"W x 4.0"H; Wt.: 18.1 lbs.

Includes: XYD12 tip, solder holder, tip cleaner and tweezers

223853CE: Dual display of tip temperature with selector switch for °C or °F and read/set temperature

Special 5% Bundle Savings
Complete ISO 9000 digital station – P/N 236101CE & 125508CE
Sold separately \$409.90
Combined: P/N 207263CE
\$388.95

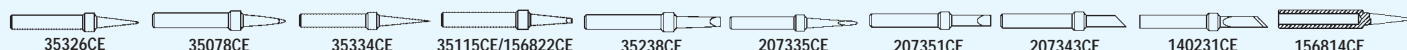
Part No.	Product No.	Description	1	10	25
125508CE	968	Desoldering station	\$299.95	\$269.99	\$242.99
125516CE	988	Solder/desoldering station	399.95	359.99	323.99
223853CE	988D	Solder/desoldering (dual display)	459.95	413.95	372.55
207271CE	TWZ60ESD	SMD tweezer iron with .078" tip	69.95	62.95	56.95
207221CE	D1A60A	Replacement desoldering iron	74.95	63.71	58.20
168583CE	46-060102	Tip .078" for P/N 207271CE	11.95	10.79	9.69
168591CE	46-060115	Tip .590" for P/N 207271CE	12.95	11.69	10.49
236460CE	78-744615	Replacement sponge for all stations	2.99	2.69	2.49

Replacement Sponges for Legacy Models

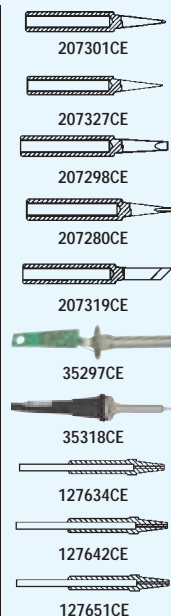
Part No.	Product No.	For Station	1	10	100
134640CE	SP815	168-3C	\$2.99	\$2.55	\$1.95
134631CE	SP715	XY-60D, XY-379 & P/N 229673CE	2.99	2.69	2.49

See page 268 & 269 for chemicals & other accessories to assist you in your soldering projects.

Tips & Replacement Parts for XYTronic Soldering and Desoldering Products

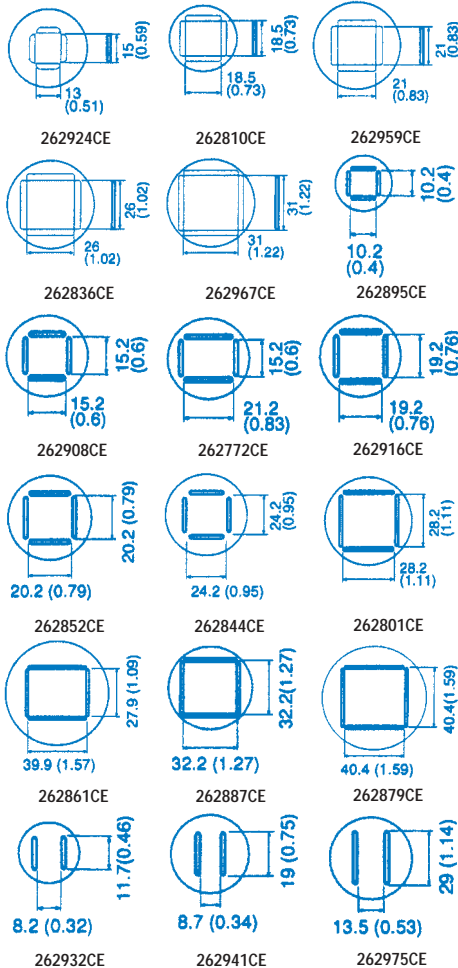


			For XYTronic Model Numbers (*Legacy Models)											Pricing		
Part No.	Cross Ref. No.	Description	168ESD	2003Y-200PHG	AE50Y-DESD	XY960A	960D*	968	988	999SD*	JS239*	168-3C	2060*	1	10	25
35326CE	XY401	Soldering tip - conical bevel 1/32"		✓	✓		✓	✓		✓	✓	✓		\$4.49	\$3.95	\$3.65
35078CE	XY402	Soldering tip - semi-chisel 1/32"		✓	✓		✓	✓		✓	✓	✓		4.49	3.95	3.65
35334CE	XY403	Soldering tip - conical sharp 1/64"		✓	✓		✓	✓		✓	✓	✓		4.49	3.95	3.65
35115CE	XY404	Soldering tip - conical chisel 1/16"		✓	✓		✓	✓		✓	✓	✓		4.49	3.95	3.65
35238CE	XY405	Soldering tip - semi-chisel wide 1/8"		✓	✓		✓	✓		✓	✓	✓		4.49	3.95	3.65
207335CE	XY406	Soldering tip - long conical chisel 3/64"		✓	✓		✓	✓		✓	✓	✓		2.95	2.69	2.39
207351CE	XY410	Soldering tip - chisel 3/16"		✓	✓		✓	✓		✓	✓	✓		2.95	2.69	2.39
207343CE	XY411	Soldering tip - wedge 3/16"		✓	✓		✓	✓		✓	✓	✓		2.95	2.51	1.88
140231CE	XY430	Soldering tip - SMD flat pack 7/32"		✓	✓		✓	✓		✓	✓	✓		8.95	7.95	7.25
156814CE	XYB01	Soldering tip - sharp conical chisel 1/32"	✓			✓				✓				4.95	4.49	3.95
207301CE	XYB02	Soldering tip - conical semi-sharp 1/32"	✓			✓				✓				4.95	4.49	3.95
207327CE	XYB03	Soldering tip - conical sharp 1/64"	✓			✓				✓				4.95	4.49	3.95
156822CE	XYB04	Soldering tip - conical chisel 1/16"	✓			✓				✓				4.95	4.49	3.95
207298CE	XYB05	Soldering tip - semi-wide chisel 1/8"	✓			✓				✓				4.95	4.21	3.16
207280CE	XYB06	Soldering tip - long conical chisel 3/64"	✓			✓				✓				4.95	4.49	3.95
207319CE	XYB30	Soldering tip - wedge blade 3/16"	✓			✓				✓				8.95	7.65	5.75
35297CE	XY37	Heating element - (nichrome)		✓	✓		✓				✓		✓	20.95	18.95	16.95
35318CE	XY48	Assembly - 60W w/ nichrome heater		✓	✓		✓				✓		✓	30.95	27.95	24.95
127634CE	XYD10	Desoldering tip - 1.0mm (.0394")						✓	✓		✓			8.95	7.95	7.25
127642CE	XYD12	Desoldering tip - 1.2mm (.0472")						✓	✓		✓			8.95	7.61	5.71
127651CE	XYD15	Desoldering tip - 1.5mm (.0586")						✓	✓		✓			8.95	7.95	7.25



Focus Hood Tips

Dimensions: mm (in.)



Hot Air SMD Rework Station with Digital Display

The Hot-Air SMD 850D is engineered to meet the demanding needs of today's electronic industry; technicians, service / repair and assembly rework. The system not only increases productivity for SMD assembly and repair but also achieves a new standard of quality.

- Incorporates a US made pump – the largest in the industry
- Long life ceramic heater insures accurate and sufficient heat where you need it
- Adjustable air-flow
- Electronically controlled temperature system with digital readout in preset and actual temperature
- Automatic cooling mode protects the heating element
- Power supply: 100-120VAC or 220-240VAC
- Airflow capacity: 1.5L/min. to 28L/min.
- 310W nichrome heating element
- Hot air temperature range: 100° - 385°C (212° - 725°F)
- Size: 7.4"W x 9.6"D x 5.0"H



- 25W diaphragm pump
- Weight: 10.8 lbs.

Includes: Precision 5 pc. non-magnetic tweezer set, 4 focus hood tips (single 2.5mm and 4.4mm pipes, P/N 262895CE and 262908CE)

Part No.	Product No.	Description	1	5
262705CE	850D	Hot air SMD rework station with 4 focus hood tips	\$395.05	\$375.25
262983CE	HG850D	Heat gun replacement	78.95	74.95
262924CE	A1141B	Focus hood tip, PLCC 11.5 x 14	34.95	33.25
262810CE	A1135B	Focus hood tip, PLCC 17.5 x 17.5	34.95	33.25
262959CE	A1136B	Focus hood tip, PLCC 20 x 20	49.95	48.29
262836CE	A1137B	Focus hood tip, PLCC 30 x 30	49.95	48.29
262967CE	A1138B	Focus hood tip, PLCC 30 x 30	49.95	48.29
262895CE	A1125B	Focus hood tip, QFP 10 x 10	34.95	33.25
262908CE	A1126B	Focus hood tip, QFP 14 x 14	34.95	33.25
262772CE	A1128B	Focus hood tip, QFP 14 x 20	34.95	33.25
262916CE	A1127B	Focus hood tip, QFP 17.5 x 17.5	34.95	33.25
262852CE	A1261B	Focus hood tip, QFP 20 x 20	49.95	48.29
262844CE	A1182B	Focus hood tip, BQFP 24 x 24	49.95	48.29
262801CE	A1129B	Focus hood tip, QFP 28 x 28	49.95	48.29
262861CE	A1263B	Focus hood tip, QFP 28 x 40	79.95	75.95
262887CE	A1265B	Focus hood tip, QFP 32 x 32	79.95	75.95
262879CE	A1264B	Focus hood tip, QFP 40 x 40	79.95	75.95
262932CE	A1258B	Focus hood tip, SOP 7.6 x 12.7	34.95	33.25
262941CE	A1260B	Focus hood tip, SOP 8.6 x 18	34.95	33.25
262975CE	A1259B	Focus hood tip, SOP 13 x 28	49.95	48.29

Vises

Vacuum Vise

- Features the patented "split ball" that tilts, turns and rotates through three planes
- Nylon jaws open a full 2.25"
- Powerful suction pad for quick and easy set-up
- Size: 5.0"L x 4.0"W x 6.3"H
- Weight: 3.3 lbs.
- One-year warranty



Part No.	Cross Ref. No.	1	5
262115CE	GV-300	\$47.19	\$44.85

Clamp Vise

- Lightweight, sturdy construction
- No tools needed – finger turn to tighten
- Ball cup allows vise to adjust to any angle
- Nylon jaws open 2"
- Size: 10.0"L x 2.5"W
- Weight: 2.1 lbs.



Part No.	Description	1	10
127167CE	Clamp vise	\$17.95	\$16.99

Third Hand

- Frees hands for soldering
- Two adjustable arms with alligator clip jaws
- 2" diameter magnifying lens
- Quick and easy rotation
- Sturdy, heavy base
- Weight: P/N 26690CE: 0.7 lbs.; P/N 72864CE: 1.4 lbs.



Part No.	Description	1	10	50
26690CE	Third hand	\$5.95	\$5.35	\$4.79
72864CE	W/ soldering holder	7.95	7.19	6.49

Hobby Table Vise

Made of aluminum die cast construction, this is an ideal tool for the hobbyist.

- Jaw width: 2.4"
- Maximum opening: 2.0"
- Clamps to any surface up to 1" thick
- Weight: 1.0 lb.



Part No.	Description	1	5
262001CE	Hobby vise	\$6.75	\$6.35

PANA VISE Electronic Work Center

- Circuit board holder, standard base, tray base mount, solder station, sponges and wire holder included
- Size: 8.5"W x 7.8"H
- Weight: 5.3 lbs.
- One-year warranty



Part No.	Description	1	5	10
27060CE	Electronic center	\$74.95	\$71.25	\$66.95

PANA VISE PV Jr. Vise

- Jaw opening: 2.8"
- Jaw size: 1" wide x 2" long
- Jaw heat tolerance: 350°F
- Vertical/horizontal jaw grooves
- Fine/course adjusting knob
- Vise height: 6.8"
- The vise neck tilts, turns and rotates
- Base bolt is 4.3" and fits all PanaVise base mounts
- Weight: 1.4 lbs.
- One-year warranty



Part No.	Description	1	10
134439CE	Jr. vise w/ mountable base	\$21.95	\$19.95

Vises and Soldering Accessories



Color Code Legend			
New	Sale	Lower\$	QtySave

PANAVISE Vacuum Base Vise

An exceptionally lightweight, portable vise that firmly attaches to any flat, smooth, non-porous surface. A single knob locks the head into position, while a second locks the arm at any angle you select. This vise will hold any item weighing up to 3 pounds.



- Head moves through three planes: 210° tilt, 360° turn and rotation
- Grooved jaws are excellent for holding small objects and are made of reinforced thermal alloy and opens up to 2.9"
- Fine/coarse adjustment knobs control jaw pressure
- Arm movement is 140°; positive indents control movement to prevent "flopping"
- Lever locks vacuum pad into place on any flat, smooth, non-porous surface
- Jaw size: 2"H x 1"W • Base diameter: 3.4"
- Overall height: 7.5"H • Weight: 0.8 lbs.

Part No.	Product No.	1	10
251791CE	209	\$32.49	\$30.99

PANAVISE Vacuum Vise

- Features the patented "split ball" that tilts, turns and rotates through three planes
- Nylon jaws open a full 2.25"
- Powerful suction pad for quick and easy set-up
- Size: 5.0"L x 4.0"W x 6.3"H
- Weight: 3.3 lbs.
- One-year warranty



Part No.	Product No.	1	10
27131CE	M381	\$55.95	\$53.25

Soldering Gun

This soldering gun with nozzle guide for solder is perfect for soldering through-hole components. Trigger action pulls out solder from the back of the soldering gun to the tip for the exact amount of solder.



- Power consumption: 40W • 120 VAC
- Solder entrance at the back of gun accepts 0.8mm to 2.3mm diameter solder
- Single hand operation • Lightweight
- Size: 7.5"L x 1.4"W x 5.9"H • Weight: 0.7 lbs.

Part No.	Description	1	10	25
319169CE	Single feed soldering gun	\$37.15	\$33.19	\$31.55

Soldering Tip Cleaner with Stand and Rosin Paste Flux

156777CE:

- For cleaning soldering iron tips without the use of water and sponge
- Metal wool for cleaning
- Rubberized base for stability



73584CE: Highly active non-corrosive and non-conductive flux with excellent wetting action

Part No.	Description	1	10	50
156777CE	Tip cleaner & stand	\$4.95	\$4.49	\$4.05
160004CE	Metal wool replacement	2.79	2.49	2.29
73584CE	Rosin paste flux (2 oz.)	2.95	2.36	1.77

For additional tools see pages 255 - 261.

Rosin Core Solder Rolls and Pocket Packs

Part No.	Manufacturer	% Composition			Dia. (In.)	Wt. (lbs.)	Pricing			
		Tin	Lead	Silver			1	10	50	100
141778CE	Kester (pak)	60	40	0	.031	0.04	\$2.59	\$2.33	\$1.86	\$1.40
32117CE	Kester	60	40	0	.031	1.00	13.19	11.89	10.69	9.59
170456CE	Kester (pak)	62	36	2	.020	0.10	1.25	.99	.94	.89
73576CE	Kester	63	37	0	.020	1.00	19.49	18.50	18.27	18.14
112344CE	Kester*	63	37	0	.031	1.00	17.69	15.95	14.35	12.89
151474CE	Golden	60	40	0	.031	0.06	1.39	1.25	1.05	.99
170456CE	Super	60	40	0	.031	0.55	5.95	5.39	4.85	4.35
141794CE	Super	60	40	0	.031	1.10	7.95	6.95	6.25	5.59
141786CE	Super	60	40	0	.031	2.20	13.95	12.95	11.95	10.95
141778CE	Super	60	40	0	.031	2.20	13.95	12.95	11.95	10.95

* Organic core



Lead-Free Solder Tip Tinner

Prevents oxide buildup and tin depletion on the tip. Increases tip life and heat transfer resulting in a better solder joint!



Part No.	Description	1	10	50
132986CE	Lead-free tip tinner	\$4.95	\$4.59	\$4.19



5' No-Clean Desolder Braids

Meets all of the most stringent soldering standards for worldwide application including: MIL-F-142560D Type R, NASA specification NHB5300.4, NPC200-4 and SP-5002.



Part No.	Description	1	10	100
139951CE	.030"W desolder braid	\$2.25	\$1.95	\$1.75
124126CE	.060"W desolder braid	2.35	2.15	1.95
124118CE	.075"W desolder braid	2.39	2.15	1.95
263708CE	.098"W desolder braid	2.59	2.35	2.23

5' Desoldering Braids

- Easy-to-use, handy dispenser
- Braided copper with flux



Part No.	Description	1	10	100
41081CE	.079"W braid (5')	\$1.49	\$1.27	\$.95
41099CE	.098"W braid (5')	1.55	1.29	1.15
153461CE	.120"W braid (5')	1.59	1.39	1.25



ProWick® Desoldering Braid

Pure Rosin

Finest oxygen-free and oil-free fine-gauge wire, the 100% copper wick is then coated with flux, which cleans connections thoroughly during desoldering to insure maximum solderability. The thin coating of flux also provides dependable, long lasting protection from oxidation.



Part No.	Product No.	1	10	100
263695CE	1803-5F (0.075"W)	\$1.95	\$1.77	\$1.68
263599CE	1804-5F (0.098"W)	2.09	1.89	1.79
263581CE	1811-5F (0.098"W)	2.39	2.19	2.09



Plastic Pump Bottle

- 6 oz. bottle
- ESD compliant
- Plastic bottle with dispenser cover



Part No.	Description	1	10	50
158131CE	Pump bottle	\$9.95	\$8.95	\$7.95

Clip-On Heat Sink

- Absorbs and dissipates heat during soldering and desoldering sensitive parts
- Size: 2.7"L x 0.7"W



Part No.	Mfr. Part No.	1	10	25
159126CE	HT156	\$2.65	\$2.25	\$1.69

Heat Sink and 7-Piece Soldering Aid Kit



100378CE: Heat sink absorbs and dissipates heat during soldering & desoldering of sensitive parts
100503CE Includes soldering wick, 3 pc. scraper set, acid brush, clip-on heat sink and empty squirt bottle

Part No.	Description	1	10	50
100378CE	Heat sink	\$.89	\$.76	\$.57
100503CE	Soldering kit	4.15	3.95	3.76

Heat Sink Compound

Thermally loaded silicone-based grease that improves transfer of energy across the metal-to-metal interface between transistor or rectifier and heat sink.



- Color: opaque white

Part No.	Mfr. Part No.	1	10	100
167249CE	THM250 (2 oz.)	\$9.95	\$8.96	\$8.06
236822CE	54114 (1 oz.)	4.95	4.21	3.16

Heat Sink Compound 4-oz. Tube

This silicone-free compound provides more effective heat transfer. Will not harden, dry out, melt, or contaminate wave-solder baths.



Part No.	Product No.	1	10
169252CE	1978DP	\$16.95	\$15.22

HAKKO Soldering Accessories

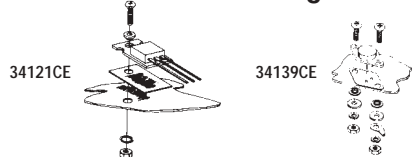
- Nozzles for models 481, 706
- Tip Cleaner • Iron Holder
- Ceramic Filters • Micro Cutters
- Power Switch • Heat Gun



These products ship from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

See Complete Soldering Accessories Offering at www.Jameco.com/Prod/Hakko

Heat Sink Mounting Kits



- TO-3 and TO-220 heat sink insulator assemblies
- 10 kits per pack

Part No.	Type	Description	1	10	100
34121CE	TO-220	5 pcs per kit ...	\$3.95	\$3.55	\$3.19
34139CE	TO-3	12 pcs per kit ...	3.95	3.59	3.25

DATAK Direct Etch PCB "Starter" Set

Includes: 4 blank circuit boards, dry concentrated ferric chloride etchant, instructions, 8 sheets of direct etch donuts, DIP, patterns, lines and 1/32" & 1/16" etch resist tape.



Part No.	Product No.	Wt. (lbs.)	1	10
70412CE	ER1*	0.7	\$11.95	\$10.95

* Shipped via UPS ground to continental U.S. only

DATAK Pre-Sensitized Circuit Boards & Developer

- Pre-coated circuit board
- Size: 3.0"L x 4.0"W x 1/16"T

Includes: Instructions 156751CE

Part No.	Description	Wt. (lbs.)	1	10	25
156751CE	Single sided	—	\$4.95	\$4.49	\$3.95
156742CE	Double sided	—	6.49	5.85	5.25
156734CE	4 oz. Pos. developer*	0.6	6.95	5.95	4.95

* Shipped via UPS ground to continental U.S. only

DATAK Photo Etch™ Printed Circuit Kit

Generate your own 1:1 artwork. Then use the patented Fast Neg film process to make a photo negative and sensitize and expose a blank copper board. Finish by developing & etching. No camera or darkroom is required.



Part No.	Product No.	Wt. (lbs.)	1	10
16731CE	12-750*	4.6	\$39.95	\$36.95

* Shipped via UPS ground to continental U.S. only

DATAK Dry Concentrated Etchant

- Makes one pint of etch solution

Part No.	Product No.	1	10	25
70201CE	ER3	\$3.95	\$3.49	\$3.15

Acid Brush

- Used for application of reactive solvents

Part No.	Description	1	10	100	1000
153322CE	Metal handle, 6"	\$0.65	\$0.59	\$0.47	\$0.35

We're Listening to What You Need

Please send your requests to
NewProducts@Jameco.com.



- Safe on plastics
- EPA SNAP approved, no CFCs or HCFCs



Workshop Chemicals



Envi•Ro•Tech™ Duster

Removes microscopic contaminants, lime, dust, metallic oxide, deposits, and other soils without the use of harmful solvents.

Part No.	Description	Wt. (lbs.)	1	12
139900CE	10 oz. aerosol w/ trigger*	0.8 ...	\$8.49	\$7.73
263530CE	15 oz. aerosol w/ trigger*	0.8 ...	11.15	10.68

Envi•Ro•Tech™ Freezer

Rapidly evaporating liquid that can chill to -62°F.

Part No.	Description	Wt. (lbs.)	1	12
139934CE	10 oz. aerosol can*	0.8 ...	\$8.99	\$7.99

ECOLINE Flux Remover

- Dissolves R, RMA, RA, SA & most no-clean fluxes

Part No.	Description	Wt. (lbs.)	1	12
118041CE	10 oz. flux remover*	0.8 ...	\$9.49	\$8.55

ECOLINE Contact Cleaner

- Ideal for switches, relays & other places on electrical connections
- Will not damage switch housings

Part No.	Description	Wt. (lbs.)	1	12
118033CE	10 oz. contact cleaner*	0.9 ...	\$8.95	\$7.95

TechClean® Wiper

This hydro-entangled cellulose/polyester wipe has high absorbency with extra-low particulate and chemical extractables.

Part No.	Description	Wt. (lbs.)	1	12
263564CE	100 sheet/pk	1.1	\$15.59	\$14.25

Isopropyl Alcohol

99.8%+ pure, anhydrous isopropanol for all-purpose cleaning. Excellent for tape head cleaning, removal of fluxes, light oils, polar soils, and white mineral residue.

Part No.	Description	Wt. (lbs.)	1	12
263572CE	1 pint bottle*	1.1	\$7.35	\$6.69

* Shipped via UPS ground to continental U.S. only

TechSpray Chemicals

- Zero Charge® Anti-Static Coating
- Zero Charge® Mat & Table-Top Cleaner
- SMT Stencil Cleaner
- Zero Charge® Hand Lotion
- Zero Charge® Screen & Keyboard Cleaner
- Quick Test® Detector Activation Spray
- Static Sensitive Brush
- No-Clean Flux Dispensing Pen

NEW
ON THE WEB



These products ship from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

See Complete TechSpray Chemicals Offering at
www.Jameco.com/Prod/TechSpray

Fine-L-Kote™ Silicone Conformal Coating

A type SR silicone resin conformal coating that has excellent moisture and fungus resistance properties, offers chemical resistance and is recommended for harsh environments. Contains Opti/Scan™ to allow for black light inspection.

Part No.	Description	Wt. (lbs.)	1	12
263548CE	12 oz. aerosol can*	1.0	\$16.79	\$15.95

Fine-L-Kote™ Urethane Conformal Coating

As a urethane coating, this is highly resistant to most solvents, moisture, fungus, and molds. A clear, repairable coating, it is formulated with a black light indicator Opti/Scan, to provide checks for conformity in quality control.

Part No.	Description	Wt. (lbs.)	1	12
263556CE	12 oz. aerosol can*	1.0	\$15.45	\$14.69

Flux Remover Pen

A unique combination of hydrocarbon solvents and alcohols makes it an excellent defluxer. This can also be used as an all-purpose cleaner for removal of light oils, silicones, waxes, greases, and similar contaminants.

Part No.	Product No.	Wt. (lbs.)	1	12
263724CE	11.5 ml pen	0.1	\$6.19	\$5.61

Conductive Pen

Contains a fast-drying, silver-filled ink designed to quickly make highly conductive silver traces.

- Repairs traces
- Links components
- Makes smooth jumpers
- Shields components

Part No.	Description	Wt. (lbs.)	1	12
263716CE	4.89 ml pen	0.1	\$13.99	\$13.29

Overcoat Green Pen

Designed to insulate printed circuit board traces and components against high voltage arcing, and provides protection from moisture. Configured for rework and repair where precision application is necessary.

- Protects conductive pen traces
- Repairs permanent solder mask

Part No.	Description	Wt. (lbs.)	1	12
263732CE	5 ml pen	0.1	\$10.35	\$9.96

Chemtronics Chemicals

- Solder Masking Agent
- Presaturated Lint-free Cleaning Wipe
- Swabs
- Regular Strength Duster

NEW
ON THE WEB



These products ship from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

See Complete Chemtronics Chemicals Offering at
www.Jameco.com/Prod/Chemtronics

Solderless Breadboards, Prototype Boards & Accessories

Color Code Legend
New Sale Lower\$ QtySave

JAMECO

ValuePro

Solderless Breadboards

The screen-printed color coordinates are suitable for many types of digital and analog prototyping and circuit design. Larger models feature a heavy-duty aluminum backing with binding posts. Use Jameco's AC/DC breadboard power supply, P/N 77681CE (pg 271).

A Jameco EXCLUSIVE

- Accepts most electronic components, including integrated circuits and transistors for digital and/or analog circuitry • 0.1" hole spacing
- Pins are identified by numbered rows and columns
- Ideal for high frequency and low noise circuits
- One-year warranty * WBU5 and JE series do not interconnect



20757CE



20773CE



20790CE



20811CE

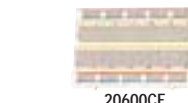
Attention Educators! Buy jumper wire (pg 271) in bulk and SAVE! (see Hook-up Wire on page 93)

WBU5 Series Key Features:

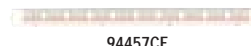
- Horizontal assembly corresponds to the operation flow design of the PC boards for handy operation
- Round hole design makes the electric connection better
- Formed with V-shaped cross-sectional groove, which allows DIP IC pins to be inserted across two parts and to increase the rate of utilization due to small pitch
- Dovetail protrusions and recesses designed to connect two adjacent parts tightly together

JE Series Key Features:

- Use to breadboard and debug circuit designs
- Low static, plastic body – CMOS safe
- Nickel-plated clips designed to withstand up to 5,000 insertion cycles
- Breadboard strips connect together to form larger working areas
- Components are easily interconnected using 20-28 AWG wire (P/N 19289CE & 20079CE, pg 271)
- Some models feature heavy-duty aluminum backings (JE24, JE27, WBU504)



20600CE



94457CE



20669CE



20722CE



136901CE



421315CE

Part No.	Product No.	Terminal Strips	Bus Strips	Contact Points	Binding Posts	Breadboard Size L" x W"	Baseplate Size L" x W"	Weight (lbs.)	Pricing			
									1	10	50	100
94457CE	JE19	0	1	100	0	6.5 x 0.4	—	0.04	\$2.95	\$2.65	\$2.39	\$2.15
20600CE	JE21	1	2	400	0	3.3 x 2.1	—	0.13	5.25	4.73	4.25	3.83
20669CE	JE22	1	0	630	0	6.5 x 1.4	—	0.20	5.49	4.95	4.49	3.95
194298CE	JE37	1	2	840	0	6.9 x 2.4	—	0.25	9.95	8.96	7.16	5.37
194255CE	JE38	1	2	970	4	2.9 x 5.6	4.9 x 6.3	0.50	16.95	15.26	12.20	9.15
20722CE	JE23	1	2	830	0	6.5 x 4.0	6.5 x 2.1	0.30	9.39	8.45	7.61	6.85
194271CE	JE34	2	3	1,560	3	6.5 x 4.0	8.5 x 4.7	0.73	15.95	14.36	11.48	11.04
20757CE	JE24	2	1	1,360	2	6.5 x 3.1	8.5 x 4.0	0.60	13.65	12.28	11.06	9.95
136901CE	WBU504*	2	3	1,855	4	5.5 x 5.5	7.4 x 6.3	0.90	22.99	20.99	18.99	16.99
20773CE	JE25	2	4	1,660	3	6.5 x 4.3	8.5 x 5.1	0.80	19.95	17.95	16.16	14.54
20790CE	JE26	3	5	2,390	4	6.9 x 5.8	9.1 x 6.9	1.10	27.29	24.56	22.10	19.89
20811CE	JE27	4	7	3,220	4	7.3 x 7.5	9.5 x 8.3	1.40	33.59	30.23	27.21	24.49

Great Savings on Breadboard Test Leads

Part No.	Description	1	10	25
421315CE	Breadboard pin to breadboard pin test leads (20 pk), 4 each color-coded (red, yellow, blue, black, white), 20 AWG wire, 7"L (15cm)	\$12.95	\$11.69	\$10.49

NEW

PLCC Prototype Adapters

PLCC socket mounted on a circuit board for easy wire wrap or design prototyping. Solder masked PCB with 0.25" long leads.



Quantity SAVE

73550CE

- PCB construction • Gold-plated round pins
- Silkscreen numbers identify pin numbers in groups of 5 and 10 • Tin-plated PLCC connector
- PLCC socket identifies pin 1 and orientation key
- PLCC socket slotted for PLCC chip remover

Part No.	Pins	Size (L x W)	1	10	100
73541CE	44	2.3" x 1.6" ...	\$11.95	\$10.79	\$9.69
73550CE	68	3.4" x 1.6"	15.95	13.56	10.17
73568CE	84	4.3" x 1.9"	23.95	20.36	15.27

PCI-Bus Prototype Board

- All plated through holes
- 0.1" hole spacing
- 50 Mil power and ground grids
- Provision for wire wrap and bypass caps
- Impedance matched to bus specifications
- Easy access to every signal on the bus
- Size: 12.4"L x 5.0"W • Weight: 0.6 lbs.



SALE

Part No.	Description	1	10
141372CE	PCI prototype bus board	\$69.95	\$62.96

Making Your Own Printed Circuit Board Book

JV Enterprises No darkroom or special equipment needed. Shows steps for drilling and shaping your printed circuit board and the materials you will need. (91 pages)



- Size: 8.5" x 11" • Weight: 0.5 lbs.

Part No.	Description	Price
141524CE	Making PCBs Book	\$17.95

SALE

8/16-Bit ISA Solderless Plug-In Breadboard



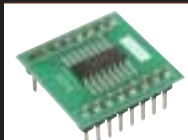
- IBM PC/XT/AT and higher compatible
- 62 data I/O lines and a DB25 female connector for interfacing to peripherals
- Twenty-four 14-pin IC capacity
- Clearly labeled bus lines
- 2,352 contact points
- Durable construction
- Size: 13.8"L x 5.0"W
- One-year warranty
- Weight: 1.0 lb.

Easy PC/XT/AT Prototyping!

SALE

Part No.	Description	1	10	25
81672CE	8/16-bit breadboard	\$49.95	\$48.60	\$47.24

For Jameco's Surface Mount Prototyping Boards See page 274



Wire Jumper Kit (350 pcs.)

- 25 each 0.1" to 5.0" lengths (14 sizes)
- 350 assorted lengths in 13 colors
- Pre-stripped/preformed 22 AWG solid wire jumpers



19289CE

19289CE: 350-piece wire jumper kit

- Handy, durable, clear plastic case

20079CE: 350-piece refill for 19289CE

- Case not included

Part No.	Description	1	10	50	100
19289CE	Wire jumper kit ..	\$15.95	\$14.39	\$12.95	\$11.65
20079CE	Refill for 19289CE ...	10.99	9.89	8.90	8.01

Reinforced Jumper Wires

- 24 AWG-300 volts
- Reinforced pin ends for durability
- 10 pack assortment: 2 each yellow, white, red, black & blue



126341CE

Part No.	Mfr. Part No.	Length (mm / inch)	1	10	100
126359CE	JW50	50 / 1.97	\$3.95	\$3.49	\$2.95
126341CE	JW100	100 / 3.94	4.95	4.49	4.05
126324CE	JW200	200 / 7.87	5.19	4.69	4.25

Resistance and Capacitance Decade Substitution Boxes

Wide-range decade substitution boxes for product design or calibration checks.



- Light durable construction
- Case may be grounded separately
- Three binding posts permit isolated substitutions
- Size: 4.7"W x 5.7"H x 1.4"D
- Weight: 0.7 lbs.



211668CE

211668CE:

- 1% resistance substitution from 1Ω to 11.111110MΩ
- 7 decade ranges of resistance
- Values can be changed in 1Ω increments



211676CE

211676CE:

- 5% capacitance substitution from 100pF to 11,111μF
- 5 decade ranges of capacitance

Part No.	Description	1	10
211668CE	Resistance	\$98.95	\$93.95
211676CE	Capacitance	128.95	122.45

Free Technical Support

Our knowledgeable Tech Support department is ready to answer your questions.
Just call us!
1-800-831-4242

Digital/Analog Design Labs

- Two 7-segment displays (digit height: 0.3")

- One-year warranty

Solderless Breadboard

- Interconnected nickel-plated tie points, fitting all DIP sizes and all components with AWG #22-30 (0.3-0.8mm) solid leads

DC Power Supplies

- DC supplies equipped with short circuit protection
- Variable DC power: 0 to +15V & 0 to -15V @ 0.5A

Function Generator (5 ranges)

- Frequency ranges: 1Hz-10Hz, 10Hz-100Hz, 100Hz-1kHz, 1kHz-10kHz, 10kHz-100kHz
- Sine wave output: 0-8 Vp-p variable
- Triangle wave output: 6Vp-p fixed
- Square wave output: ±5V fixed



75838CE

Our most popular digital lab!

International 115/220VAC Switchable



201890CE

Part No.	Tie Points	Fixed Power Supply	Pulse Generator	Frequency Counter	Multimeter	Includes
75838CE	1580	+5VDC @ 1.0A	No	No	DCV (Digital)	Power cord, manual
201890CE	2960	+5VDC @ 0.5A	1Hz to 1MHz switchable	Yes	ACV, DCV, DCmA, resistance (analog)	Power cord, enclosed case, test lead, jumper wire kit, DB25 serial adapter, manual

Part No.	Description	Size (W" x D" x H")	Weight (lbs.)	1	10	25
75838CE	Digital lab	10.6 x 13.3 x 5.0	8.1	\$276.95	\$249.95	\$226.95
201890CE	Digital/analog lab	13.9 x 12.8 x 4.9 (back panel)	11.8	429.95	365.46	305.56

Digital/Analog Design Lab

Solderless Breadboard

- 2712 interconnected nickel-plated tie points, fitting all DIP sizes and all components with AWG #22-30 (0.3-0.8mm) solid leads

DC Power Supplies

- Variable DC output: 0 to +15V & 0 to -15V @ 500mA
- Fixed DC output: +5VDC @ 1A; -5VDC @ 300mA
- Input power: 120/220VAC @ 50-60Hz (switchable)

Function Generator

- Frequency ranges: 1Hz-10Hz, 10Hz-100Hz, 100Hz-1kHz, 1kHz-10kHz, 10kHz-100kHz
- Sine wave output: 0-8 Vpp variable
- Triangle wave output: 0-6 Vpp variable
- Square wave output: 0-8 Vpp variable

Other features:

- 2 variable resistors: VR1=1kΩ, VR2=100kΩ
- 8 data switches
- 2.5" dia. 8Ω, 25W speaker
- 2 pulse switches (2 sets of outputs: A, A, B, B)
- 2 banana sockets, 2 BNC jacks
- One-year warranty
- Two 7-segment LED displays (digit height: 0.3")
- 8 red LEDs with separate input terminals

Includes: Power cord and manual

Part No.	Description	Size (W" x D" x H")	Wt. (lbs.)	1	10	25
136266CE	Digital/analog lab	12.8 x 9.8 x 3.7	8.5	\$379.95	\$341.99	\$307.79
319214CE	Replacement breadboard	6.7 x 6.5 x 0.4	0.5	24.45	22.28	21.16

Powered Project Board

- Solderless breadboard with 2420 tie points
- DC power supplies: +5V @ 1A; variable power 0 to +15VDC and 0 to -15VDC @ 500mA
- Back panel has ground terminal
- Outputs are short-circuit protected
- Edge plate for non-DIP size components
- Input power: 120/220VAC @ 50-60Hz (switchable)
- Replacement fuse: P/N 103907CE, pg 84
- Power switch with light
- Breadboard size: 7.4"L x 6.8"W
- Enclosure size: 9.8"L x 8.0"W x 2.6"H
- Weight: 6.8 lbs.
- One-year warranty



CE

International 120/220VAC Switchable

Includes: Power cord

Part No.	Description	1	10	25
136258CE	Powered breadboard	\$99.95	\$89.95	\$87.95

AC/DC Power Supply

Ideal for Breadboards on previous page



International 120/220VAC Switchable

Output Specifications:

- +5VDC @ 1A;
- -5V @ 300mA fixed;
- 0 to +15VDC @ 500mA variable;
- 0 to -15VDC @ 300mA variable;
- 12-6-0-6-12 lapped VAC, 300mA fixed

With built-in short-proof regulated power supplies.

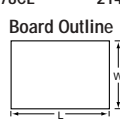
- Input power: 120/220VAC @ 50-60Hz (switchable)
- Indicator lamps and power fuses
- Just plug in and start to use
- Compact & lightweight
- For both digital and analog circuits
- Compatible with test leads P/N 77841CE, pg 241
- Size: 7.4"W x 5.5"D x 2.6"H
- Color: beige
- Weight: 5.5 lbs.
- One-year warranty

Part No.	Description	1	10	25
77681CE	Power supply ...	\$119.95	\$109.95	\$99.95

General Purpose Prototyping Boards

Select the prototype board that fits your needs from our comprehensive product listing. Prototyping boards with punched holes are convenient, economical tools for assembling circuit components and trying cost-effective alternatives to custom designs.

- 0.062" board thickness
- 0.1" hole spacing
- 0.08" pad size
- PCB material epoxy glass
- Plated through pads are double-sided



A
Holes Only



B
Pad Per Hole



C
Power/Ground Perimeter Bus with Pad Per Hole



D
3 Hole Solder Pad and Bus

See PCB enclosures on pg 273, mounting hardware (recommend P/N 106551CE) below

Part No.	Cross Ref. Number	Size (W" x L")	Fits Enclosure(s) (see page 272)	Circuit Pattern	Hole Pads	# Holes x Dia. ↑	Power/Ground Buses	Connector I/O or Edge	# Mounting Holes x Dia.	Weight (lbs.)	Pricing			
											1	10	50	100
105099CE	2855PCB	1.60 x 2.70	18921CE	B	Single-sided	288 x .035"	None	None	2 x .115"	.02	\$5.25	\$4.73	\$4.25	\$3.83
105101CE	5002PCB	1.50 x 3.50	11957CE	C	Single-sided	365 x .038"	4	None	2 x .140"	.02	6.95	6.26	5.00	3.75
263185CE	PCB-403	1.80 x 3.10	18921CE	B	Plated through	300 x .042"	None	None	4 x .115"	.03	6.95	6.25	5.63	5.09
105128CE	2853PCB	2.00 x 4.40	18913CE, 11965CE	C	Single-sided	669 x .038"	4	None	4 x .140"	.03	7.95	6.95	6.25	5.59
105110CE	2300PCB	2.40 x 3.40	11869CE	C	Single-sided	637 x .038"	4	None	2 x .140"	.03	7.95	6.95	6.25	5.59
263206CE	PCB-463	2.40 x 4.10	N/A	B	Plated through	640 x .042"	None	None	4 x .120"	.05	8.95	8.09	7.25	6.55
28177CE	PCB1	2.42 x 4.10	18913CE	C	Plated through	674 x .040"	None	None	4 x .120"	.04	5.95	5.35	4.79	4.29
263214CE	PCB-858	2.50 x 5.50	18913CE	B	Plated through	640 x .042"	None	None	4 x .120"	.05	8.95	8.09	7.25	6.55
105152CE	2851PCB	3.10 x 4.50	18892CE	C	Single-sided	1450 x .035"	7	None	4 x .140"	.07	9.95	8.95	7.95	6.95
263222CE	PCB-69	3.30 x 3.70	N/A	B	Single-sided	900 x .042"	None	None	4 x .120"	.05	8.95	8.09	7.25	6.55
105136CE	2320PCB	3.30 x 4.50	11885CE	C	Single-sided	1266 x .035"	4	None	4 x .140"	.06	9.95	8.95	7.95	6.95
105161CE	2852PCB	3.60 x 7.00	18905CE, 11973CE	B	Single-sided	2225 x .035"	4	None	4 x .140"	.10	14.95	13.45	11.95	10.95
206586CE	2746APCB	4.30 x 6.80	209349CE	C	Single-sided	2550 x .042"	5	None	4 x .140"	.07	10.95	9.86	8.87	7.98
21434CE	JE401(8001)	4.50 x 6.50	18868CE	B/D	Single-sided	2360 x .042"	2	None	None	.12	21.95	19.76	17.78	16.00
21451CE	JE405(8003)	4.50 x 6.50	18868CE	C	Single-sided	2360 x .042"	1	None	None	.12	19.95	17.95	14.36	10.77
206578CE	2743APCB	4.60 x 4.30	208910CE	C	Single-sided	1684 x .042"	5	None	4 x .140"	.07	7.49	6.74	6.07	5.46
105179CE	2505PCB	5.00 x 6.50	11893CE, 18868CE	C	Single-sided	2829 x .035"	7	None	8 x .120"	.13	14.95	13.49	11.95	10.95
28193CE	PCB3	5.00 x 8.00	18876CE	C	Plated through	3705 x .042"	4	Mounting area-I/O	4 x .120"	.17	21.95	19.76	17.78	16.22
21477CE	JE407(8006)	5.00 x 13.25	N/A	B	Plated through	6063 x .038"	None	None	8 x .120"	.28	41.19	37.07	29.66	22.24
206594CE	2747APCB	5.50 x 8.00	209357CE	C	Single-sided	3906 x .042"	5	None	4 x .140"	1.0	14.99	13.49	10.79	8.09
105187CE	2507PCB	6.10 x 8.80	18876CE	C	Single-sided	4771 x .035"	7	None	8 x .140"	.21	29.95	26.96	21.56	16.17
263231CE	PCB-7038	8.30 x 11.9	N/A	B	Plated through	8819 x .042"	10	5	4 x .115"	.40	55.95	52.19	49.59	47.09
263249CE	PCB-6088	9.20 x 13.0	N/A	B	Plated through	11,000 x .042"	10	None	13 x .115"	.50	55.95	52.19	49.59	47.09

Vector Products

43140CE	64P44XXP*	4.50 x 6.50	18868CE	A	Drilled only	2860 x .042"	None	None	None	.09	\$6.09	\$6.06	\$6.03	\$6.01
52943CE	84P44WE	4.50 x 8.50	18876CE	A	Drilled only	3740 x .042"	None	None	None	.15	9.55	9.49	9.45	9.42
37604CE	169P44WE	4.50 x 17.0	N/A	A	Drilled only	7524 x .042"	None	None	None	.31	16.25	15.66	15.06	14.47
37612CE	169P44XXP*	4.50 x 17.0	N/A	A	Drilled only	7524 x .042"	None	None	None	.25	11.25	11.19	11.14	11.08
37621CE	169P84WE	8.50 x 17.0	N/A	A	Drilled only	14,448 x .042"	None	None	None	.53	22.89	22.79	22.69	22.54
106551CE	20 pieces PC board mounting hardware (4 spacers, 8 screws and 8 washers) used with all above boards										1.79	1.65	1.45	1.35

* PCB material: phenolic

↑ All 0.042" diameter hole boards use terminals T44, T49, and T421 (see below)



Wire Wrap and Push-In Terminals

For .042" Diameter Holes

Specifications:

- Material: copper alloy
- Prebagged 100 pcs.

34147CE: Push-In Micro-Klip Terminals

- Overall length: .36"
- Post size: .032" x .045"

34155CE: Miniwrap Wiring Terminals

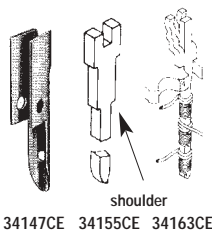
- Shoulder: .045"
- Two-prong with square tail for wire wrapping

- Overall length: .69"
- Post size: .025"Sq.

34163CE: Klipwrap Wiring Terminals

- Shoulder: .045"
- Three-prong with square tail for wire wrapping

- Overall length: .83"
- Post size: .025"Sq.



Part Number	Product Number	Height Above .062" Board	Length Below .062" Board	100 pc. units	
				1	10
34147CE	T421	.200	.097	\$7.29	\$6.95
34155CE	T44	.065	.530	8.45	6.97
34163CE	T49	.200	.530	11.89	11.19



Copper-Plated Blank Circuit Boards

Ideal for hobbyists and students doing prototypes of circuits. Copper plating on board for either single-sided or double-sided boards.

- 1.6mm thickness



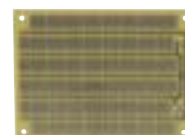
Fig. 1



Fig. 2

Fig. 3

Single-Sided							
Part No.	Cross Ref. No.	Size (L" x W")	Fig.	Wt. (lbs.)	1	10	50
169279CE	PCBS3X6	3.0 x 6.0	3	0.1	\$3.49	\$3.14	\$2.51
169287CE	PCBS6X6	6.0 x 6.0	2	0.2	4.95	4.46	3.56
169295CE	PCBS12X12	12.0 x 12.0	1	0.5	13.49	12.14	10.93
Double-Sided							
169308CE	PCBD3X6	3.0 x 6.0	3	0.1	\$5.25	\$4.73	\$4.25
169316CE	PCBD6X6	6.0 x 6.0	2	0.2	7.95	7.16	5.72
169324CE	PCBD12X12	12.0 x 12.0	1	0.7	17.95	16.16	12.92



262511CE



262537CE

PT Series Prototyping Boards

Designed to accommodate any mixture of 0.3" to 0.6" wide IC's with any number of pins, as well as any combination of resistors, capacitors, diodes, transistors, etc.

- 4 power buses that connect to a power jack (recommended P/Ns 101178CE, 101186CE & 265421CE, pg 136)

Part No.	Cross Ref. No.	Size	Hole Pads	# Holes x Dia.	# Mntg Holes x Dia.	1	5	10
262511CE	PT-5X37	5"L x 3.7"W	Double-sided	1135 x .036"	4 x .140"	\$24.75	\$22.95	\$21.79
262537CE	PT-6X49	6"L x 4.9"W	Double-sided	1931 x .036"	4 x .140"	32.49	30.89	29.35

JAMECO ValuePro

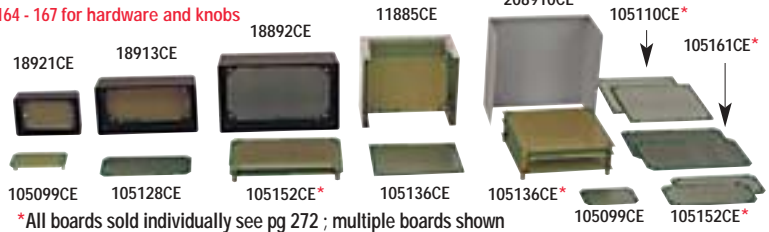
The prototype builder boards on pg 272 are designed to fit into our ABS plastic and aluminum enclosures, metal cabinets and heavy-duty instrument cases. The pre-cut boards have 2 or 4 mounting holes compatible with the PC board mounting hardware listed on pg 272 (P/N 106551CE).

Board description: laminated glass epoxy 1/16" thick fire retardant per FR-4 specs. Copper-clad and solder mask one side. Drilled holes: .035" diameter on .080" square pad. Pads spaced on .10" x .10" grid.

Enclosures

See pages 164 - 167 for hardware and knobs

Call for additional OEM pricing.



*All boards sold individually see pg 272 ; multiple boards shown

ABS Plastic Enclosures

Lid has a lip for precision fit (adds 0.4" height). Complete with four screws and lid.

All sizes below are for interior dimensions.

Part No.	Cross Ref No.	Size (L x W x D)	Wt. (lbs.)	1	10	50	100
18921CE	H2855	3.1" x 2.0" x 0.9"	0.1	\$3.15	\$2.84	\$2.55	\$2.30
18913CE	H2853	4.9" x 2.5" x 1.5"	0.2	3.69	3.32	2.99	2.69
18892CE	H2851	6.0" x 3.5" x 1.9"	0.4	4.79	4.31	3.88	3.49
18905CE	H2852	7.5" x 4.3" x 2.3"	0.5	6.89	6.20	5.58	5.02

Die-Cast Aluminum Enclosures

Ideal for RF circuits. Made from aluminum, an excellent heat-sink, these cases are great for high temp circuits (up to 600°C). Complete with screws.

Part No.	Cross Ref No.	Size (L x W x D)	Wt. (lbs.)	1	10	50	100
11957CE	B5002	3.9" x 2.0" x 1.0"	0.2	\$5.95	\$5.39	\$4.85	\$4.35
11965CE	B5004	4.7" x 2.4" x 1.6"	0.4	8.49	7.64	6.88	6.19
11973CE	B5006	7.5" x 4.3" x 2.4"	1.2	13.95	12.56	11.30	10.17

Aluminum Enclosures

Put them in an economical aluminum enclosure. The enclosure comes in two pieces which slide together.

Part No.	Cross Ref No.	Size (L x W x D)	Wt. (lbs.)	1	10	50	100
11869CE	B2300	4.0" x 2.0" x 2.8"	0.2	\$5.45	\$4.90	\$3.92	\$2.94
11885CE	B2320	5.0" x 4.0" x 3.0"	0.4	7.89	7.10	5.68	4.26
11893CE	B2335	7.0" x 6.2" x 4.6"	0.8	10.95	9.86	7.88	5.91

Metal Enclosures

- Mounting screws and rubber feet included
- Glossy black textured steel top cover and ivory aluminum base

Part No.	Cross Ref No.	Size (L x W x D)	Wt. (lbs.)	1	10	50	100
208901CE	B2741A	4.0" x 3.3" x 2.2"	0.4	\$6.49	\$5.89	\$5.29	\$4.69
208910CE	B2743A	5.9" x 5.3" x 3.0"	0.8	7.99	7.19	6.49	5.89
208928CE	B2744A	7.3" x 6.3" x 2.8"	1.1	8.99	8.09	6.47	4.85
209349CE	B2746A	6.3" x 7.8" x 2.5"	0.9	12.35	11.12	8.89	6.67
209357CE	B2747A	7.5" x 9.8" x 3.2"	1.4	14.99	13.49	10.79	8.09

ABS Heavy-Duty Instrument Cases

P/N 18876CE includes ventilation and speaker sound slots.

• Color: gray

Part No.	Cross Ref No.	Size (L x W x D)	Wt. (lbs.)	1	10	50	100
18868CE	H2505	7.9" x 6.3" x 2.5"	0.8	\$7.89	\$7.10	\$6.39	\$5.75
18876CE	H2507	10.0" x 7.5" x 3.1"	1.4	8.99	7.99	7.28	6.55

ABS Enclosures w/ Clear Tops

Includes screws for mounting boards or electronic components, rubber gasket for a tight seal on your equipment & drilled holes for mounting.

Part No.	Cross Ref No.	Size (L x W x D)	Wt. (lbs.)	1	10	50	100
141831CE	203C1	4.6" x 3.2" x 1.8"	0.3	\$8.95	\$8.09	\$7.25	\$6.55
141840CE	203D1	6.3" x 3.2" x 1.8"	0.4	9.95	8.99	8.09	7.25
141858CE	203F1	7.0" x 5.5" x 2.5"	0.8	11.95	10.79	9.69	8.69

Component Cabinet



- Drawer can be divided into 3 sections (clear)
- Wall mountable cabinet (ABS black)
- Cabinet size: 6.0"D x 14.7"W x 7.4"H
- Weight: 2.8 lbs.

319601CE: 5.5"L x 2.7"W x 1.5"H

319610CE: 2.5"W x 1.2"H

85454CE: 5.5"L x 2.7"W x 1.5"H

85446CE: 2.4"L x 1.1"H

Includes: 20 clear plastic drawers, 20 dividers and 30 adhesive I.D. labels

* Prepackaged: order in increments of 10 or 50

Part No.	Description	1	10	50
319599CE	Component cabinet	\$15.95	\$13.95	\$12.49
319601CE	Drawer for cabinet	.39	.35	.294
319610CE	Divider for cabinet	*.19	.17	.17
85454CE	Drawer for P/N 81701	.39	.35	.29
85446CE	Divider for P/N 81701	*.19	.17	.17

JAMECO ValuePro

Plastic Flip Top Boxes

- Clear plastic box with a clear plastic lid and removable dividers
- 100255CE: Size: 8.4"L x 4.5"W x 1.4"H
- 18 compartments (1.4" x 1.5" each)
- 148902CE: Size: 10.2"L x 4.7"W x 1.6"H
- 12 compartments (1.7" x 2.3" each)

Part No.	Description	1	10	100
100255CE	18 compartments	\$2.25	\$1.95	\$1.75
148902CE	12 compartments	3.95	3.49	2.95

JAMECO ValuePro

Plastic Flip Top Case for SMDs

128 Compartments for Surface Mount Components

- 8 rows x 16 columns grid
- Flip top openings on each bin
- Padded cover locks bins closed
- Perfect match to store P/N 156881CE SMD resistor assortment, pg 73
- Weight: 1.4 lbs.
- Color: gray
- Size: 11.0"L x 8.3"W x 1.7"Thick

Includes: Labels for each bin

Part No.	Description	1	10
164267CE	SMD flip top case	\$49.95	\$44.99

JAMECO ValuePro

Stackable Drawers

- Case size: 4.5"L x 4.4"W x 2.3"H
- Drawer size: 4.4"L x 4.0"W x 0.9"H
- Color: blue/white

Part No.	Description	1	10	100
11906CE	Case/drawers	\$1.85	\$1.68	\$1.53

SALE

Bug Boxes

- Anti-static plastic
- Fits in bug cage (P/N 11332CE, below)
- Box size: 4.9"L x 3.3"W x 0.6"H
- 11341CE: stores sixty 8-pin or thirty 16-pin DIPs
- 11375CE: Designed to store all types of components

Part No.	Description	1	10	100
11341CE	30 compartments	\$3.95	\$3.49	\$3.15
11375CE	3 compart./6 vertical & 6 horizontal dividers	3.95	3.56	3.20

Bug Tray

- Fits in bug cage (P/N 11332CE, below)
- 10 compartments
- 3.2"L x 0.4"W x 0.4"H ea.
- Tray size: 4.8"L x 3.6"W x 0.5"H

Part No.	Description	1	10	100
11800CE	Divided bug tray	\$3.19	\$2.87	\$2.58

Bug Cage

- Holds bug boxes or trays
- Modular and interlocking
- Color: blue
- Weight: 0.7 lbs.
- Case size: 5.0"L x 3.9"W x 5.1"H

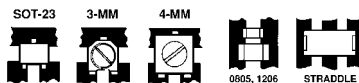
Part No.	Description	1	10	100
11332CE	Bug cage	\$7.49	\$6.74	\$6.07

Committed to You

We're committed to providing you with the best service in the industry.



Surfboards®



Ideal for Prototyping!

207407CE

Mini Breadboards for Surface Mount Devices

6000/6100 Series for Discrete Devices

- Universal large foil pattern areas accept a wide range of device footprints or can be modified to accept new footprints
- 0.1" pin spacing • Height: 0.5"

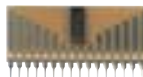
Lower \$\$\$

Part No.	Product No.	Pins	Width	1	10
207423CE	6103	3	0.3"	\$1.39	\$1.04
207407CE	6008	8	0.8"	2.29	1.99
207431CE	6109	9	0.9"	2.39	2.15
207415CE	6010	10	1.0"	2.59	2.29

9000 Series for ICs

- Adapt SMD to thru-hole
- Size: 1.20"W x 0.65"H

207378CE/207394CE: 0.1" pin spacing



207360CE

207394CE

Part No.	Product No.	1	10
207360CE	9081 (For 8-pin SOIC)	\$1.35	\$1.22
207378CE	9082 (For 8-pin SOIC)	3.55	3.10
207386CE	9161 (For 14/16-pin SOIC)	1.75	1.50
207394CE	9163 (For 14/16-pin SOIC)	5.45	4.79



Application Specific Adapters

33000 series SURFBOARDS® convert SMD component footprints to SIP format. Compatible with conventional and solderless breadboards & sockets (.100" center pins).



207589CE

Part No.	Product No.	Accepted Devices	Pins	1	10
207589CE	33205	SOT-23-5/SC59-5	5	\$1.75	\$1.49
207597CE	33206	SOT-23-6/SOT-23-L/SC-59-6/TSOP-6	6	1.95	1.69

CHIPQUIK SMD 2000 Removal System

Complete Solder/Desolder Rework Kit

- Removal alloy, solder paste, 3" solder, paste flux, liquid flux remover/cleaner, handi vac, 2 acid brushes, precision tweezers, six 4" x 4" cleaning wipes, 10 swabs, 6 alcohol pads, SMD removal/clean up instructions, stainless steel probe kit & 5' solder wick



Part No.	Description	1	10
208055CE	SMD 2000 removal system	\$99.95	\$94.99

CHIPQUIK SMD Removal Kit

- Quick and easy to use
- Potential damage to printed circuit boards is eliminated
- 2.5' of CHIPQUIK® material removes 1250-1500 SMD pins
- Uses simple equipment and materials for application & clean-up

SALE



Part No.	Description	1	10
141305CE	SMD removal kit	\$19.99	\$17.99



ISA Printed Circuit Prototyping Boards

Printed circuit prototyping boards for virtually any application – including those requiring high component densities and solder or wire wrap connections. All boards are manufactured to precise standards and specifications. All bus and circuit patterns are solder-coated for user convenience.

- Edge contacts: gold

Part No.	Cross Ref. No.	Description	Size (Inches) W x L	Terminals (pg 272)			I/O Connector (not included)	Hole Pads	# Holes x Dia.	Power/ Ground Bus	# Mounting Holes x Dia.	Weight (lbs.)	Pricing		
				T44	T49	T421							1	10	25
21531CE	JE417	PC/XT 8-bit	4.2 x 6.50	yes	yes	yes	D-sub 9, 15, 25 & 37	Plated through	2126 x .042"	2	8 x .120"	.12	\$19.95	\$16.99	\$14.65
28206CE	PCB4	PC/XT/AT 16-bit	4.25 x 13.13	yes	yes	yes	D-sub 9, 15 & 25	Plated through	4890 x .042"	2	4 x .120"	.23	24.95	23.69	21.85

BELLIN DYNAMIC SYSTEMS, INC.

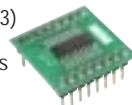
Surface Mount Proto Boards

Prototyping SMT circuit boards has been tedious and time-consuming because surface mount devices are so small. Now there is an easy, cost-effective and versatile Snap-Apart solution from Bellin Dynamic Systems.

- Quality silk-screened and solder-masked boards
- V-groove scoring between elements for smooth straight edges
- Compatible w/ .100" single or dual row male headers (see pg 123)
- Size: 7.6"L x 5.0"W • Board thickness: 0.031"
- See our website (www.Jameco.com) for additional specifications



215491CE



Small SMT

Part No.	Prod. No.	Description	1	10
215491CE	B502	160 SMT pattern, SOT/SOIC/TSOP/MSOP/DPAK & more	\$45.95	\$41.35
227344CE	B513	300 SMT pattern, SC90, SOT23-6, 323-6, TSOP, MSOP8, 10+	45.95	41.35

SOIC

215520CE	B505	60 SOIC SMT pattern, SOIC 8, 14, 16, 24, 32, 40 & more	\$45.95	\$41.95
227310CE	B510	140 SMT pattern, SOIC 8 to DIP .300" width	45.95	41.35
227328CE	B511	63 SMT pattern, SOIC nrw/wd 8, 14, 16, 18, 20 to DIP .300"	45.95	41.35
227352CE	B514	72 SMT pattern, SOIC narrow 8, 14, 16, 18, 20 to DIP .300"	45.95	41.35
227361CE	B515	30 SMT pattern, SOIC 24, 28, 32 to DIP .600" width	45.95	41.35

Fine Pitch Dual Row

215503CE	B503	34 SMT pattern, SOIC/QSOP/TSOP/MSOP/TSSOP & more	\$45.95	\$41.35
227281CE	B507	40 SMT pattern, SSOP/TSSOP 16, 20, 32, 40 & more	45.95	41.35
323889CE	B516	54 SMT pattern, 0.65mm TSSOP 14/16/20/28 to DIP 0.300/0.600	62.49	56.25
323900CE	B517	18 SMT pattern, 0.65/0.5/0.4mm TSSOP-48 to DIP 0.600	62.49	56.25

Quad

215511CE	B504	25 SMT pattern, QFP32, 44, 48, 52, 54, 64, 70, 80, 100 PLCC18, 20, 28, 32, 44	\$45.95	\$41.35
227336CE	B512	24 SMT pattern, PLCC18, 20, 22, 28, 32, 44, 52, 68, 84 & 100	41.39	33.11

323918CE	B518	2 SMT 0.65mm or 0.8mm pitch, universal QFT adaptor for QFP32/40/48/56/64 (by 8-pin increments to 256 pins)	59.95	53.95
323926CE	B519	2 SMT 0.4mm or 0.5mm pitch, universal QFT adaptor for QFP32/40/48/56/64 (by 8-pin increments to 256 pins)	59.95	53.95

336479CE	B530	8 SMT, 0.65/0.80mm QFP/MLF 8 - 80 pins (even # of pins/side)	43.65	41.45
----------	------	-----------------------------------------------------------------	-------	-------

336487CE	B531	8 SMT, 0.65/0.80mm QFP/MLF 4 - 76 pins (odd # of pins/side)	43.65	41.45
----------	------	----------------------------------------------------------------	-------	-------

336495CE	B532	8 SMT, 0.40/0.50mm QFP/MLF 8 - 80 pins (even # of pins/side)	43.65	41.45
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336508CE	B533	8 SMT, 0.40/0.50mm QFP/MLF 4 - 76 pins (odd # of pins/side)	43.65	41.45
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PCB Connector (0.062" thick through-hole)

227272CE	B506	45 SMT pattern, USB A, B/1394/RJ11, 12, 45/DB9 PCB conn.	\$45.95	\$41.35
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PitchStick™

227299CE

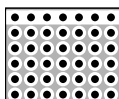


227299CE	B508	20 SMT pattern, 48 inline pads, metric/rare pitches	\$45.95	\$41.35
227301CE	B509	20 SMT pattern, 48 inline pads, 50 & 25 mil pitches	41.39	31.00

See pages 11-13 & 275 for more prototyping boards.



Circuit Pattern



Power/Ground Perimeter
Bus with Pad Per Hole

21531CE

28206CE



microEngineering Labs LAB-X1 Experimenter's Module Board

The LAB-X1 is a pre-assembled experimenter's platform. It provides an assembled testbed containing most of the circuitry commonly used with PICmicro microcontrollers (MCUs). Many different projects may be created using the LAB-X1, including calculator, voltmeter, LCD backpack, tone dialer, and RC servo controller.



- 40-pin ZIF socket for PICmicro MCU (not included, recommend PIC16F877-20/P, P/N 176882CE pg 8)
- Reset button • 16 switch keypad • 3 potentiometers • LED bargraph
- 2 lines x 20 characters LCD module • Speaker • 2 RC servo connectors
- RS232 interface • Socket for RS485 interface (device not included)
- Socket for I2C & SPI serial EEPROM (device not included)
- Socket for Microwire serial EEPROM (device not included)
- Socket for real time clock/serial analog to digital converter (devices not included)
- EPIC in-circuit programming connector
- Prototyping area for additional circuit
- Wiring for microchip in-circuit debug connector
- Size: 5.5" x 5.6" • One-year warranty

Requires: AC adapter (below)

Part No.	Description	1	10
169113CE	LAB-X1 Experimenter Board	\$199.95	\$189.95
176903CE	LAB-X1 Experimenter Board Kit (unassembled)	139.95	132.95
176882CE	PIC16F877-20/P microcontroller (pg 8)	9.49	8.49
127976CE	AC adapter (details on page 198)	5.25	4.73

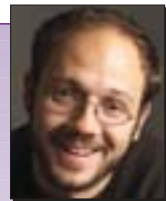
microEngineering Labs EPIC Plus PICmicro Programmer

The EPIC Plus Programmer quickly and easily programs the PIC12Cxxx, 12CExxx, 16C505, 16C55x, 6xx, 7xx, 84, 9xx, 16CE62x, 16F62x, 7x, 8x, 87x, 14C000, 17C7xx, 18Cxxx microcontrollers from Microchip. The basic programmer includes an 18-pin socket for programming 8, 14 and 18-pin PICmicro MCUs. Devices available separately on page 6.

- Simple installation with parallel port (printer) interface
- Command line operation for automated, non-interactive programming • PICmicro Assembler software included

Requires: Two 9V batteries or AC adapter (below)

Part No.	Description	1	10
132679CE	EPIC Plus PICmicro programmer	\$59.95	\$53.95
136397CE	8/18/20-pin ZIF adapter	34.95	31.95
132610CE	40/28-pin ZIF adapter	34.95	31.95
162317CE	AC wall adapter (16VDC/500mA, details on page 199)	8.75	7.65
67256CE	6' DB25 cable (details on page 95)	6.45	5.79



Developing Development Systems

Microchip's PIC microcontrollers offer embedded systems developers a lot of bang for the buck. Compilers and development boards are widely available, and there's a great base of software to grab from shared sites.

If you're thinking about more advanced development though, you may want to consider taking a second look at the many RabbitCore™ development environments available on pages 11-13. Now you can develop embedded applications with 100Base-T, GSM/GPRS, Wi-Fi, SSL, Flash plus analog and digital I/O on these development kits.

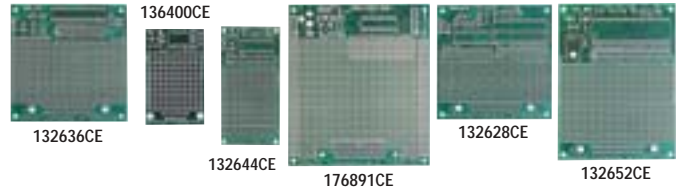
Extensive integrated features and glueless architecture facilitate rapid development with the provided C source code and compiler. Plus, pre-written royalty-free software libraries are provided, making these the best integrated development environments we've seen for fast embedded systems prototyping.

Practical Practices
Money Saving Tips for the Engineer

microEngineering Labs "PICProto" Prototyping Boards

- High quality blank prototyping boards for PICmicro microcontrollers
- Holds microcontroller, 5V regulator, oscillator, capacitors and DB9-25 connector
- Double-sided board with plated-through holes • Large prototyping area
- Solder mask on both sides makes soldering easy • Silkscreen legend

Includes: Documentation sheet with schematic, suggested parts and placement



PICProto 18, 18L: For all 18-pin PICs including PIC16C52, 54, 56, 58, 55A, 558, 61, 620, 621, 622, 71, 710, 711, 712, 715, 716, 84, 16CE623, 624, 625, 16F627, 628, 83, and 84

Part No.	Description	Size (L" x W")	1	10
132644CE	PICProto 18	3.0 x 1.5	\$9.95	\$8.95
176891CE	PICProto 18L	3.6 x 4.1	19.95	17.95

PICProto 3: For the 28-pin PIC16C62, 63, 642, 66, 72, 76, 773, 16F73, 76, 870, 872, 873, 876, 18C242, and 252

132636CE	PICProto 3	3.0 x 3.0	\$14.95	\$13.49
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PICProto 64: For the 40-pin PIC16C64, 65, 662, 67, 74, 77, 774, 16F74, 77, 871, 874, 18C422, and 452

132652CE	PICProto 64	4.0 x 3.0	\$16.95	\$14.95
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PICProto 8: For all 8-pin PIC12Cxxx and 12CExxx

136400CE	PICProto 8	2.0 x 1.2	\$8.95	\$7.95
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PICProto Dual: For 18-pin PIC16C52, 54, 56, 58, 55A, 558, 61, 620, 621, 622, 71, 710, 711, 712, 715, 716, 84, 16CE623, 624, 625, 16F627, 628, 83, & 84, as well as 28-pin PIC16C55, & 57. Accepts standard 0.6" 28-pin device or 0.3" skinny DIP

132628CE	PICProto Dual 18/28	3.0 x 3.0	SALE \$12.95	\$11.66
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microEngineering Labs PICBasic and PICBasic Pro Compiler

PICBasic converts your BASIC programs into files that can be programmed directly into a PICmicro MCU.

- Compatible with most PICmicro MCU programmers including EPIC plus
- Use in DOS or Windows (includes Windows editor/DE software)
- I2C instructions to access external serial EEPROMs
- In-line assembler and call support

132661CE: PICBasic Compiler

- Expanded BASIC Stamp I compatible instruction set
- PEEK and POKE instructions to access any register from BASIC
- Serial speeds to 9600 baud
- Supports PC12C67x, PIC14Cxxx, PIC16C55x, 66x, 7xx, 84, 92x, and PIC16CF8xx microcontrollers
- May use up to 2k of code space

150543CE: PICBasic Pro Compiler

- Direct and library routine access to any pin or register
- Automation page boundary handling past 2k • Bit, byte, word arrays
- Real If...Then...Else...Endif • Hierarchical expression handling
- Interrupts in BASIC and assembler • BASIC Stamp I and II library
- Built-in LCD support • MPLAB/MPASM/ICE compatibility
- Supports 12C5xx, 12C67x, 12CE67x, 14C000, 16C5x, 16C55x, 6xx, 7xx, 84, 92x, 16CE62x, 16F62x, 7x, 8x, 87x, 17Cxxx, and 18Cxxx microcontrollers

Part No.	Description	1	10
132661CE	PICBasic compiler	\$99.95	\$89.95
150543CE	PICBasic Pro compiler	249.95	224.95



For Our Complete Selection of PIC Microcontrollers
See pages 6 – 8

For Development Kits
See pages 11 – 13

XELTEK 40-Pin Low-Cost Universal Programmer

- Supports 3400+ devices, including most E(E)PROM, Series E(E)PROM & FLASH
- Programs GALs, PEELs, PALCE, Microcontrollers, PIC16Cxx/17Cxx, COP87xx, and PSD3XX
- Tests TTL/CMOS Test, Memory Test, Vector Test, Test Pattern Edit, Auto Identify TTL/CMOS Device
- Features a universal ZIF socket that accepts up to 40 pins
- High-speed programming, cost-effective hardware and flexible software
- Load and save file in binary, Intel (extended) Hex, Motorola S or Tektronix (extended) Hex format. Multiple load, format conversion, relocation etc.
- HEX-ASCII Edit, Fuse Map Edit, Checksum, Swap, Vector Table edit
- Supports Windows® 95/98/ME • Printer Port Interface
- Size: 7.8"L x 5.5"W x 0.8"H • Weight: 4.0 lbs.

Includes: Power adapter, parallel cable, user's guide and CD-ROM software

Part No.	Description	1	5
231183CE	SuperPro-Z universal programmer	\$244.95	\$232.69



XELTEK Ultra-Fast 48-Pin USB & Stand-Alone Universal Programmer

- Fastest low-cost programmer in the market; programs high-density FLASH memory at near theoretical minimum programming time: (Intel 28F320W18 – 1.8 volts 32Mbit at 18 sec.; 13 sec. for programming & 5 sec. for verifying)
- Standard universal 48 pin-drivers support devices down to 1.5 volts; optional 100-pin expander module
- Currently 19,800 devices supported from 100+ manufacturers including memory, MCU, and PLD
- Supports: EPROM, Paged EPROM, Parallel/Serial EEPROM, FPGA Configuration Serial PROM, FLASH Memory (NOR and NAND), BPROM, NOVRAM, SPLD, CPLD, EPLD, Firmware HUB, Microcontroller, MCU, Standard Logic
- Reliable programming of low voltage devices down to 1.5 volts
- Three modes of operation are supported: standard PC hosted operation via USB, stand-alone operation for manufacturing or service and built-in terminal mode to operate via an external instrument
- Over-current/over-voltage protection for safety of the chip & programmer hardware
- Microsoft® Windows® 98/ME/NT/2000/XP compatible
- Size: 9.4"L x 5.9"W x 2.0"H • Weight: 5.0 lbs.

Includes: 12VDC @ 2.5A AC adapter, Program CD, USB Cable, user's guide

Part No.	Description	1	5
231221CE	SuperPro-3000 USB universal programmer	\$989.95	\$940.45



For Adapters see Below

XELTEK SMD Adapters for SuperPro 280/680/3000

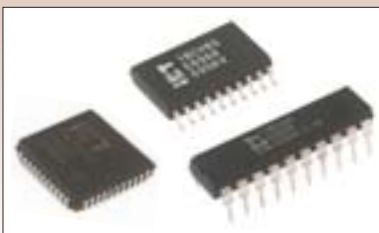
Part No.	Product No.	Description	1	5
231247CE				
231255CE				
231263CE				
231271CE				
231247CE	A008A	28-pin PLCC adapter	\$84.95	\$80.75
231255CE	A015A	32-pin PLCC adapter	94.95	90.25
231263CE	A244A	44-pin PLCC adapter	109.95	104.45
231271CE	A247A	48-pin TSOP adapter	174.95	166.25



See pages 14 – 16 for our complete selection of EPROMs and EEPROMs.



See pages 17 & 18 for PALs/GALs and Anachip PEEL™ PLDs.



Fast, Low-Cost Universal Device Programmer

Parallel Port Interface

- 5000+ device types supported
- Menu driven software
- Programs (E)EPROM, PROM, Serial PROM, PALCE, GAL, flash memory, microcontrollers, ATF
- On-board FPGA for speed; 4X faster than offshore brands
- Auto search device select function supports (E)EPROM and microcontrollers
- Device insertion test identifies improperly inserted device before programming
- Auto programming for production programming
- Read, blank check, program, verify, checksum, data compare, security, auto function

Includes: Parallel cable, wall adapter, diskette & manual

System Requirements: IBM PC, XT, AT, 386, 486, Pentium® or compatibles, DOS 2.11 or greater, Windows® 95/98/2000/NT/XP; hard disk, 512k RAM & parallel port

Part No.	Description	Socket	1	5
207731CE	CHIPMAX	40-pin ZIF	\$349.95	\$332.95



MADE IN USA

High-Speed Universal Device Programmer/Tester

Parallel Port Interface

- Programs Flash memory, PROM, EPROM/EEPROM, Serial (E)EPROM, Bipolar PROM, PAL, PALCE, GAL, NVRAM, PEEL, EPLD, SPLD, CPLD, PIC & Microcontrollers
- 8000+ device types supported
- Hardware diagnostic program examines all 48-pin drivers
- On-board FPGA for speed; 4X faster than offshore brands
- Tests TTL, CMOS, DRAM and Static RAM ICs
- Detects pin locations for poor or damaged contacts
- Current limiting protects hardware circuits from improperly inserted or defective chips
- Supports POF and JEDEC formats
- High-speed device function tests and user creatable test library
- Read, blank check, program, verify, checksum, data compare, security, auto (erase, blank check, program, verify), and option bit program function
- Built-in editor for both buffer date and test vectors • CE/CUL/CSA quality certified

Includes: Parallel cable, installation diskette, power cord and manual

System Requirements: IBM PC, XT, AT, 386, 486, Pentium®, hard drive, 512k RAM, Windows® 95/98/2000/NT, and parallel port

Part No.	Description	Socket	1	5
207765CE	TOPMAX	48-pin universal ZIF	\$875.95	\$681.86



MADE IN USA

Versatile, Production Quality Universal Programmers

Parallel Port Interface

- 5000+ device types supported
- Supports EPROM, flash, microcontroller, Serial (E)EPROM, EPLD, PALCE, GAL, PEEL
- Auto search device select function
- Fast programming speed with IC vendor approved algorithms
- Built-in editor for both buffer date and test vectors
- Supports JEDEC, Intel Hex, Motorola S Records, Binary and ASCII file formats with File LOAD/SAVE command
- Built-in macro commands for programming

Includes: 01/02/03 personality modules, parallel cable, wall adapter, disk & manual
System requirements: IBM PC, XT, AT, 386, 486, Pentium®, hard disk, 512k RAM, standard parallel port, MS-DOS 2.11 or higher

Part No.	Description	Sockets	1	5
207773CE	MEGAMAX programmer	48-pin ZIF	\$379.95	\$349.95
207781CE	MEGAMAX4G prog.	48-pin ZIF (1)/32-pin ZIF (3)	399.95	379.95



MADE IN USA

SALE

We're Listening to What You Need

Our goal is to provide you with more of what you want. Let us know how we can better serve your electronics needs. Please send your requests to NewProducts@Jameco.com.

16kB-256MB Universal IC Programmer/Tester

Parallel Port Interface

Supports over 7,000 devices including EPROM, EEPROM, Serial PROM, FLASH, PLD/ CPLD/ FPGA, MPU/MCU & much more. Most devices in various package types can be programmed with the on-board 40-pin ZIF socket or through an appropriate adapter/ converter. Modular pin drivers program at high speed & provide high reliability & expansion capability.

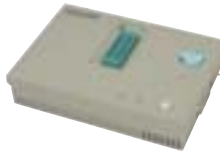
- Functions of load file, read master, program, verify, auto, ID check, checksum, blank check, erase, secure, protect/unprotect, edit, file transfer, function configuration & self test

Includes: External power supply, DB25 M/F cable, manual & software CD-ROM

System Requirements: Intel Pentium, 32MB of RAM, parallel port, Windows® 95/98/NT/2000/XP, 5MB free hard disk space, CD-ROM drive

Part No.	Description	1	5
216039CE	ALL-11C2 programmer	\$879.95	\$799.95

HI-LO SYSTEMS



HI-LO SYSTEMS

EPROM Eraser

- Erases all UV erasable EPROMs (32-pin)
- Upper & lower erasing chambers hold a total of 16 EPROMs
- One-year warranty
- Conductive foam liner eliminates static build-up
- Size: 8.5"L x 2.8"W x 2.8"H
- Weight: 1.6 lbs.

Includes: AC adapter – 9VDC @ 600mA and a timer which turns eraser off at the end of the selected time period – 10 to 60 minutes

Part No.	Description	1	5
121267CE	EPROM eraser	\$159.95	\$143.95



UVP

EPROM Erasers and Accessories

66042CE: Erases 1 chip in 7 minutes

- Conductive foam liner eliminates static build-up
- UV intensity: 6.5mW/cm² • One-year warranty
- Size: 6.8"L x 1.5"W x 2.3"H • Weight: 0.8 lbs.

Requires: Four AA batteries (not included), recommend P/N 244515CE (pg 208)

15712CE: Erases 1 chip in 15 min. or 8 chips in 21 min.

- Conductive foam liner eliminates static build-up
- Maintains constant exposure distance of 1"
- Built-in safety lock to prevent UV exposure
- Complete with holding tray for 8 chips
- UV intensity: 6.8mW/cm²
- Size: 9.0"L x 3.7"W x 2.6"H • Weight: 2.3 lbs.

Part No.	Description	1	5
66042CE	Portable eraser	\$51.85	\$49.95
15712CE	8-chip eraser	106.85	101.49
34382CE	Lamp for 15712CE	39.95	29.95
13864CE	Foam (12" x 24" x 0.25")	9.29	8.35



Flash Writer/Programmer with USB Interface

- Programs 8-bit FLASH serial ICs via USB cable on Windows® 9x/2000/XP
- High speed: Only 22 seconds to blank check, program, and verify MXIC MX29F040
- File formats supported: binary and machine code, Intel HEX, Motorola HEX, Tektronix
- Type, read, load, edit, checksum, erase, blank check, program, verify, protect functions
- Supports Flash EPROM, EPROM & EEPROM

Includes: USB cable, 12V @ 500mA adapter, CD-ROM software and manual

Part No.	Description	1	5
225947CE	Leaper 3D	\$199.95	\$179.95



Universal Programmer – Pocket Size & Battery Powered

Parallel Port Interface

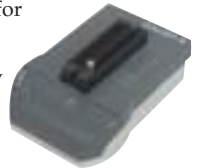
A unique ASIC pin driver was designed specifically for this latest generation programmer, enabling the first true universal input/output capability. Along with basic functions the software permits setting specially designated functions for any selected device.

- Supports over 6400 devices: 8-bit and 16-bit EPROM, EEPROM, FLASH EPROM, Serial EEPROMs, all Microcontrollers, GAL/PAL/CE without adapters
- Support for ultra-low voltage devices down to 1.3V
- High speed data transfer: 27C256 read/verify = 2 seconds; program = 8 seconds
- Three separately adjustable voltages for all 40-pins
- Fully compatible with Windows® 95/98/ME/NT/2000/XP
- Integrated editor's many features allow user to edit device data, which can be loaded or saved in INTEL HEX, Motorola S or binary format
- Operates on AC power adapter or 6 NiMH batteries
- Size: 4.5"L x 3.1"W x 1.3"H • Weight: 0.5 lbs.

Includes: Printer port data cable, power adapter and CD-ROM

System requirements: PC with Pentium® CPU

Part No.	Description	1	5
226309CE	GALEP-4	\$369.95	\$351.49



GALEP-4

Universal EPROM/Flash Programmer w/ USB Interface

- Supports low voltage components up to 2.5V; user selectable verify Vcc with one or two-pass verify voltage
- High speed: 30 sec. to process 16Mbits memory
- Auto detect device pin insertion and contact check
- Select device brand & number by prompt and convenient cross search, FLASH memory auto detection
- Supports EPROMs, EEPROMs, FLASH EPROMs, Serial E/EPROMs, NV RAMs, Microcontrollers, DSPs and PLDs • Supports file formats JEDEC, binary, Intel 80/86 HEX, Motorola HEX, Tektronic HEX

Includes: USB cable, 12V@1.5A power adapter and CD-ROM software

System requirements: Pentium® II or higher, 32MB RAM minimum, 30MB hard disk space, Windows® 98/ME/2000 operating system

Part No.	Description	1	5
225939CE	Leaper 48	\$575.95	\$529.95



512k E(E)PROM/Flash Programmer w/ USB Interface

Compact, portable, and lightweight stand-alone E(E)PROM flash programmer. Also interfaces with your PC through the USB port.

- Programs EPROMs, EEPROMs, Flash EPROMs & more
- 2 sockets for master/slave operation
- Stand-alone mode uses two 9V batteries
- IC parameters are adjustable such as programming algorithm, Vpp voltage, and pulse width
- Supports file formats binary and machine code, INTEL HEX, Motorola HEX
- Supports Windows® 95/98/NT/2000/ME/XP
- Size: 6.3"L x 4.3"W x 1.8"H

Includes: USB cable, 12VDC@500mA power adapter and CD-ROM

Part No.	Description	1	5
220636CE	Leaper-3C	\$275.95	\$249.95



Jameco's Got the Docs

We offer free technical documents for most of the products we carry. Find them easily on the product specification pages at

www.Jameco.com



PARALLAX

Robotic Controller Kits

Board of Education Full Kit

The new Board of Education Revision C carrier board has two major changes from the Revision B. The jumper near the servo connector will select either Vdd (5 V) or Vin (unregulated input voltage) to power the servos. The three-position power switch is either off (0), power to everything but servo connectors (1) or power to everything (2).

- Mechanically interlocked power supply to prevent dual connection of wall pack and 9V battery
- DB9 connector for programming and serial I/O
- Female 10-pin dual row connector for optional AppMods • P0 – P15 I/O pins

Includes: Board of Education carrier board, BASIC Stamp 2 module, pluggable wires, serial cable, CD-ROM and power supply

Part No.	Product No.	1	10
283101CE	28102	\$118.95	\$96.99

Boe-Bot Full Kit

Now with Robotics text v2.0! The new text includes 41 activities for the Boe-Bot and PBASIC 2.5 source code support. The Boe-Bot's flexibility stems from the fact that it's a rolling Board of Education. The Board of Education and Basic Stamp may be removed to be used as your platform for the other Stamps in Class curriculum. The robot may be programmed to follow a line, solve a maze, follow light, or communicate with another robot. Requires 4AA batteries (not included).

Part No.	Product No.	1	10
282933CE	28132	\$198.99	\$189.00

Commercial Customers

Open an account with us to consolidate your monthly billing and save time.

Advanced Toddler Robot Kit

Walking robots have mechanical and software interdependencies that require in-depth examples and explanation. The Advanced Robotics text is an introduction to the Toddler robot's basic movements. Students using the Toddler robot will learn advanced embedded programming with BASIC, efficient code development, sensor feedback, and general control. Because of the number of possible movements, we consider the Toddler to be appropriate for those aged 14 and above.

Includes: 155-page Advanced Robotics text in the Stamps in Class style and the 351-page BASIC Stamp Manual

Part No.	Product No.	1	10
282837CE	27311	\$248.95	\$236.49

BS2 Educational Starter Kit

This complete "Getting Started" kit is enhanced to include the *What's a Microcontroller?* (WAM) curriculum. Includes all of the BASIC Stamp hardware required to complete the activities and challenges. With this latest edition of the kit, you will receive the *What's a Microcontroller?* parts and text making this combination a bona fide "Getting Started" kit. With the WAM kit you'll get your feet wet through a series of over 40 activities designed to provide you with the best possible introduction to the world of BASIC Stamps.

Includes: BASIC Stamp 2 module, Board of Education Programming Board, BASIC Stamp Manual, CD-ROM, jumper wires and a serial cable

Part No.	Product No.	1	10
282829CE	27207	\$158.95	\$152.95

Robot Builder's Source Book

McGraw-Hill Everything you need to find and acquire common and uncommon robotic parts and supplies. Jameco and over 2500 mail order suppliers and other sources, including local and international businesses all cross-referenced and categorized to make your search quick and easy. (711 pages, 2003)

- Size: 8.5" x 10.0" • Weight: 3.9 lbs.

Part No.	Description	Price
213461CE	Robot Builder's Source Book	\$16.95

Stamp Works Kit

This all-in-one kit takes you beyond theory, into a well-written collection of 32 experiments that will teach you first class BASIC Stamp programming. You'll learn to get the most out of the BASIC Stamp and to increase its versatility by connecting to popular active and passive components.

Includes: Manual, BASIC Stamp Experiment Board, BS2-IC, 2x16 parallel LCD with custom cable, digital multimeter with 2 probes, wire cutter/stripper/pliers, three 100' rolls 22 AWG wire, screwdriver kit, photoresistor, 555 timer, 8-bit serial-to-parallel and 8-bit parallel chips, Dallas Semiconductor 1620 digital thermometer and real-time clock with 32.768MHz crystal, National Semiconductor ADC0831 8-bit A/D converter, Maxim 7219 8-digit LED display driver, National Semiconductor LM358 op-amp, stepper motor, servo, power supply, resistor assortment, capacitors, serial cable, CD-ROM and plastic box for parts

Part No.	Product No.	Price
184946CE	27297	\$348.95

BS2P Professional Starter Kit

Provides the engineer with all the parts required to get started with the BSP2 microcontroller. The kit includes a selection of components and ready-to-run source code that will help master some of the exciting new features of the BSP2.

Includes: Manual, BS2P demo board, BS2P-24 microcontroller, DB9 (serial) programming cable, PCF8583 chip, 32.678kHz crystal, 24LC32 serial EEPROM, DS1822 thermometer, (3) 4.7K resistors, jumper wires

Part No.	Product No.	1	10
202323CE	27235 kit	\$207.95	\$187.95
282984CE	45187 BS2P40 demo board	88.95	84.95

Robot Builder's Bonanza

TAB Publishing This fascinating guide offers a complete, unique collection of tested and proven project modules that you can mix and match to create an almost endless variety of highly intelligent and workable robot creatures. (753 pages, 2001)

- Size: 7.3" x 9.2" • Weight: 2.5 lbs.

Part No.	Description	Price
137171CE	Robot Builder's Bonanza	\$17.95

See page 233 for an index of Electronics-Industry books offered in this catalog.

Basic Analog and Digital Parts & Text V1.2

Covers the essentials of 8-bit A/D & D/A conversion using a BASIC Stamp. Introduces PBASIC commands for A/D conversion with resistor/capacitor circuits, interfacing an ADC0831 8-bit A/D converter, scaling analog outputs into meaningful digital values, analyzing time-varying signals and using PWM as analog output.



Part No.	Product No.	1	10
282950CE	28155	\$43.95	\$40.29

Servo Controller

Controls up to 16 servos and may be networked together so that two servo controllers can control 32 servos using a single I/O line.

- 2400 to 384k baud serial port
- 63 ramp rates
- 16-bit PWM timers
- RS-232 serial protocol



Part No.	Product No.	Description	1	10
282896CE	28023	Servos controller ...	\$38.95	\$36.95

Industrial Control Parts & Text



PARALLAX

An educational tutorial on process control with the BASIC Stamp. Methods of process control are demonstrated in detail using a simple desktop heater system. A fan provides an external disturbance to the closed-loop system.

Part No.	Product No.	1	10
176575CE	28156	\$58.49	\$55.59

High-Efficiency Robotic Servo

Excellent power-to-weight ratio for robotic projects.

- Supply voltage: 4.8-6 volts
- Speed: 16 seconds to 60°
- Torque: 49 oz.-in. @ 4.8V
- Can be operated by P/N 151001CE, pg 139
- 0.8"W x 1.4"D x 1.6"H



Part No.	Description	1	10
157067CE	Robotic servo	\$19.95	\$17.95

Flex Sensor

- Maximum resistance: 30kΩ to 40kΩ, proportional to the degree of flexing or bending
- Applications: virtual reality data gloves, robotic, bio-metric, physics and engineering



Part No.	Description	Nominal Resistance	1	10
150551CE	Flex sensor	10Ω	\$12.95	\$11.65

MONDO•TRONICS

Flexinol Muscle Wires®

These unique nickel-titanium alloy Muscle Wires® actually shorten in length when electrically powered, and can lift thousands of times their own weight. • Length: 1 meter

How it works... Pressing the switch lets power flow from the batteries through the Muscle Wire®, heating it and causing it to contract, raise the lever and lift the weight. When power is removed, the Muscle Wire® cools and relaxes, and the weight helps it return to its starting position.



141348CE: Muscle Wires® Book & Deluxe Kit

- Kit includes one each Flexinol 100, 150 and 250 Muscle Wires® and Project Book
- 3 meters of wire

Includes: Crimps and instructions

Part No.	Description	Wire Dia. (microns)	Linear Resistance (ohm/m)	Typical Current (mA)	Deform Weight* (grams)	Recovery Weight* (grams)	Typical Rate**	Pricing	
								1	10
141321CE	100LT	100	150	180	28	150	33	\$17.95	\$15.95
141874CE	150LT	150	50	400	62	330	20	16.95	15.29
160055CE	375LT	375	8	2750	393	2000	4	22.95	19.95

* Multiply by 0.0098 to get force in Newtons ** Cycles per minute, in still air, at 20° Centigrade

Part No.	Description	1	10
141348CE	Muscle Wires® kit	\$59.95	\$56.95

PRECISION NAVIGATION, INC. Vector 2X Compass Module

- Pin selectable BCD or binary output format (compatible with Motorola SPI and National Microwire)
- Raw uncalibrated magnetometer output optional
- Master or slave capability for data clock generation
- 2° accuracy, 1" resolution
- 3-wire serial output format
- Hard iron calibration
- 5Hz sampling rate

Requires: Power supply 5V @ 10mA (recommend P/N 112070CE, pg 197)

Part No.	Description	1	10
126703CE	Vector 2X module	\$49.95	\$44.95



Microcontroller Application Cookbook Vol. 1 & 2

Vol. 1 is a wide-ranging collection of 113 interface circuits designed around the BASIC Stamp 2.

For somebody getting started with microcontrollers. Discusses timing diagrams, interfacing, A/D conversion and how to control a high-voltage circuit with a solid-state relay.

Vol. 2 is a new collection of 154 interface circuits designed around the BASIC Stamp 2.



PARALLAX

Part No.	Product No.	1	10
282925CE	28113	\$58.95	\$57.95

Giant Robotic Ball-Bearing Servo

Extremely powerful! Perfect for large robotic projects where power is a must.

- Torque: 161 oz.-in.
- Power supply: 4.8-6 volts
- Speed: 19 seconds to 60°
- Can be operated by P/N 151001CE, pg 139



Part No.	Description	1	10
166351CE	Giant robotic servo	\$49.95	\$44.95

Crossbow Accelerometer Evaluation Boards

Dual Axis

Evaluation board for the ADXL202, dual axis, 2g accelerometer.

177308CE: features RS-232 interface to connect to PC serial ports. Also includes software to display real time acceleration data.



Part No.	Product No.	Description	1	10
177287CE	ADXL202EB	Dual axis	\$59.95	\$53.95
177308CE	ADXL202EB-232	w/ RS-232	159.95	149.95

Crossbow Accelerometer Triple Axis Accelerometer

- Dynamic range and excellent frequency response
- Current: 24mA
- Axis: 3
- Shielded cable: 2-foot pigtail
- Acceleration range: ±4g
- Size: 1.9"L x 1.0"W x 0.8"H



Requires: 5VDC power supply, not included (recommend P/N 164101CE, pg 197)

Part No.	Description	1	10
141575CE	CXL04LP3	\$339.95	\$319.95
141583CE	Digital interface card	312.95	299.95

30-Day Money-Back Guarantee

If you're not completely satisfied with your purchase, simply return the product within 30 days for a refund or exchange. Details on page 284.

Over 1,000 Additional Products Available at www.RobotStore.com
800.374.5764



Fig. 1



Fig. 2



Fig. 3



Fig. 4



Fig. 5



Fig. 6



Fig. 7



Fig. 8



Fig. 9



Fig. 10



Fig. 11



Fig. 12



Fig. 13



Fig. 14



Fig. 15



Fig. 16

Microprocessor Starter Kit



Imagine Tools

This Microprocessor Starter Kit is designed to work with several different forms of applications via system control: commands and feedback, data acquisition, and custom hardware setups specific to user requirements. Whether you are an embedded systems expert, or an electronics novice, Imagine Tools offers an educational community devoted to bringing as much value to a kit purchase as possible by offering free downloadable products, application ideas, and support. The microprocessor starter kit is ideal for hobbyists, enthusiasts, and entrepreneurs seeking to create a killer product and/or application. Kit includes RCM3610 module with Rabbit 300A microprocessor, starter board, software CD, hardware, and power supply.

- 256k FLASH/128k SRAM
- 33 digital I/O ports
- 4 serial ports



Part No.	Description	Input Voltage	Current Draw	Price
354992CE	Microprocessor starter kit	24-40VAC, 7-40VDC	43mA typ.@12V, 16mA typ.@40V	\$94.05

Part No.	Mfg. P/N	Description	Fig.	No. of Pieces	Exp. Level	Dimensions (L"xW"xH")	Wt. (lbs.)	Pricing	
								1	10
Educational Kits									
307707CE	652111	Detector radio kit	—	29	BEG	10.9 x 6.9 x 1.6	1.0	\$22.95	\$19.99
307723CE	628710	Fuel cell car and experiment kit	—	39	INT	8.5 x 4.4 x 6.5	5.0	\$39.95	\$25.95
307731CE	626112	Power house kit	1	59	INT	15.6 x 9.9 x 9	6.0	\$39.95	\$25.95
285624CE	SR-TGI	Telegraph kit	2	—	—	2.7 x 2.7 x 4	—	\$49.95	\$47.49

Timer Modules and Electronic Dice Kit

147871CE	I-1	1 sec. to 3 min. timer module	—	—	—	3.0 x 1.7 x 1.2	—	\$19.95	\$17.95
147846CE	I-10	3 sec. to 1 min. off cyclic timer module	—	—	—	3.0 x 1.7 x 1.2	—	\$22.49	\$20.29
200352CE	K3400	Dual electronic dice kit	3	85	INT	3.0 x 2.8	0.5	\$18.95	\$16.95

Audio Transmitters, Amplifier, Sound Generator and Detection Kits

SALE

151204CE	AA-1	Super snooper big ear audio amplifier kit	4	17	INT	1.8 x 1.0 x 0.6	—	\$10.95	\$9.95
151239CE	FMST-100	FM stereo transmitter mini kit	5	37	INT	2.7 x 2.0	—	\$29.95	\$26.95
117604CE	K1771	FM transmitter Kit	6	26	INT	1.8 x 2.8	—	\$10.19	\$9.99
211772CE	MK118	FM radio kit	—	65	INT	4.8 x 3.3	—	\$21.95	\$19.95
125161CE	6063KT	One chip AM radio kit	7	39	INT	4.0 x 1.3 x 0.5	—	\$13.95	\$12.95
147643CE	K4304	10 LED mono VU meter kit	—	36	INT	2.7 x 1.4	0.3	\$16.99	\$15.99
117612CE	K1803	Universal mono pre-amplifier kit	—	17	INT	1.2 x 1.8	—	\$8.95	\$7.95
125111CE	6027KT	1-watt amplifier kit	—	9	INT	1.2 x 1.2 x 0.9	—	\$6.29	\$5.59
127255CE	K4001	7-watt amplifier kit	—	22	INT	2.2 x 1.4	—	\$13.95	\$12.49
136207CE	8405KT	18-watt bridged mono amplifier kit	—	17	BEG	2.2 x 1.1	—	\$15.59	\$13.95
147838CE	E-11	20-watt RMS amplifier module	—	—	—	2.8 x 2.8 x 1.6	—	\$24.95	\$22.49
129138CE	K4003	30-watt stereo power amplifier	8	38	INT	2.8 x 2.0	—	\$29.95	\$26.95
127562CE	K4401	Sound generator kit	9	61	INT	2.8 x 2.8	—	\$29.95	\$26.95
125137CE	DK31	Siren kit	—	20	BEG	2.0 x 0.8 x 0.5	—	\$7.95	\$7.15
125170CE	6101KT	Train sound generator kit	10	11	BEG	1.1 x 0.6 x 0.2	—	\$9.49	\$8.59
215394CE	MK140	Karaoke kit	11	59	INT	3.9 x 3.3 x 1.0	—	\$15.95	\$14.35
313912CE	B110	Stereo tone control kit	—	—	—	4.2 x 1.5	—	\$19.95	\$18.95
313921CE	B009	Antenna amplifier kit	—	—	—	2.2 x 2.2	—	\$12.95	\$12.30
147571CE	MK103	Voice activated LED kit	12	33	INT	2.5 x 1.6 x 1.4	0.1	\$9.95	\$8.95

Clock Kits

319281CE	K8009	Multifunction clock kit	13	—	—	9.9 x 3.1	—	\$99.95	\$94.50
319290CE	B8009	Case for multifunction clock kit	—	—	—	12.4 x 3.2 x 1.0	—	\$24.95	\$23.70

Optical Communications

177092CE	IR-2	Infrared transmitter/receiver kit	—	26	BEG	1.4 x 1.2	0.1	\$24.95	\$22.49
169914CE	IF-LMH	Fiber optic lab kit	14	—	—	—	0.7	\$46.89	\$42.29

Holiday Kits

211781CE	MK130	3D flashing Christmas tree kit	15	36	INT	3.1 x 3.5 x 4.0	—	\$10.95	\$9.95
211764CE	MK116	Santa sleigh and reindeer kit	—	201	EXP	5.7 x 3.2	—	\$22.95	\$20.65
236072CE	MK117	Deluxe Christmas tree kit	—	208	INT	3.2 x 5.6	—	\$19.99	\$17.99
147635CE	MK100	Flashing Christmas tree kit	—	30	BEG	4.0 x 2.4	—	\$6.29	\$5.97
236081CE	MK145	Flashing pumpkin kit	16	71	INT	1.3 x 4.0 x 3.2	—	\$9.99	\$8.99

KIT assembly experience level: BEG = beginner; INT = intermediate; EXP = expert

Ethernet Starter Kit



Imagine Tools

This starter kit is ideal for hobbyists, students and inventors who want to learn about C programming, TCP/IP programming and interfacing electronic devices with microprocessors. Fun and useful application projects take you step-by-step through hard-ware and software development. Hardware includes a RCM3700 Rabbit Microprocessor Core Module plus prototyping and breadboards (6.5"L x 2.2"W), 12VDC@1A power supply, serial cable, 2 Ethernet cables, 8Ω 400mW speaker, wiring kit, 10kΩ thermistor, 0.1mF capacitor, 10kΩ potentiometer, headers, and standoffs. Software includes Dynamic C lite, libraries and samples, as well as royalty free TCP/IP protocol stack. Mix and match project hardware and software to create a new application such as a WAV file player, DC and stepper motor controller, GPS clock, and much more.



Part No.	Description	Weight	Price
355004CE	Ethernet starter kit	2 lbs.	\$141.55

Part No.	Mfg. P/N	Description	Fig.	No. of Pieces	Exp. Level	Dimensions (L" x W" x H")	Wt. (lbs.)	Pricing	
								1	10
Robotic and Computer Control Kits									
199603CE	769K	Rockit robot expert kit	17	96	EXP	—	1.0	\$21.95	\$19.55
157366CE	007	Robotic arm kit (unassembled)	18	109	EXP	—	4.5	\$74.95	\$67.49
159345CE	007/IBM	Robotic controller software (DOS 4.2 & up, Windows* 95/98)	—	—	—	—	1.0	\$84.95	\$76.49
140821CE	972K	Spider kit	19	107	EXP	12 x 7 x 3.5	1.2	\$49.95	\$43.95
200328CE	MK127	Running micro bug kit	20	26	INT	4.0 x 2.4	0.2	\$18.95	\$16.95
200336CE	MK129	Crawling micro bug kit	21	29	INT	4.0 x 2.4	0.2	\$21.45	\$19.35
128928CE	K8000	Computer control interface kit	—	301	EXP	9.3 x 5.3	1.7	\$139.95	\$125.95
128910CE	K6714	Universal relay controller card kit	—	64	EXP	8.3 x 5.9	1.8	\$59.95	\$53.95
120678CE	K6501	Remote control by phone kit	—	116	EXP	4.1 x 5.1	0.7	\$69.49	\$62.59
285641CE	561-4562	Hovercraft kit	22	25	BEG	—	0.8	\$21.79	\$20.69
239476CE	K2633	Relay card kit (req. 9VDC@300mA power supply, 133891CE, pg 198)	—	29	INT	3.0 x 2.7	0.4	\$19.99	\$18.99

Power Supply and Motor Kits

117621CE	K1823	1 amp power supply kit	—	12	INT	2.1 x 2.1	0.3	\$12.95	\$11.65
20626CE	JE215	Dual adj. regulated power supply kit	—	48	INT	5.1 x 3.5 x 2.0	2.1	\$22.95	\$20.49
120539CE	K8004	DC to pulse width modulator kit	—	40	EXP	3.3 x 1.9 x 1.8	0.5	\$22.95	\$20.49
127829CE	DK67	DC motor speed control kit	—	35	INT	3.6 x 2.3 x 1.2	0.2	\$19.95	\$17.95
139109CE	DK109	Unipolar stepper motor driver kit	—	29	INT	2.6 x 1.9 x 1.0	0.1	\$29.95	\$26.95
181833CE	VM-1	DC voltage monitor kit	—	46	BEG	2.7 x 1.3	0.2	\$8.95	\$7.95
263628CE	K8005	Stepper motor controller card and motor kit	—	102	INT	3.9 x 3.5	0.3	\$59.95	\$56.95

Battery Charger Kits

239521CE	K8012	Lead acid battery charger kit	—	—	—	3.8 x 5.5 x 1.6	—	\$39.95	\$37.95
314211CE	M149	Solar cell battery charger	—	—	—	2.5 x 2.0 x 1.1	—	\$16.95	\$16.05

Electronic Lock Kits

127554CE	K6400	Code lock kit	23	67	INT	1.7 x 1.8	0.5	\$29.95	\$26.95
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Distance and Light Kits

129120CE	K3502	Parking radar kit	24	55	INT	4.9 x 1.9	0.5	\$39.95	\$34.95
117639CE	K5300	Stroboscope kit	—	19	EXP	3.5 x 2.6	0.5	\$15.49	\$14.99
131684CE	K8017	3-channel light organ kit	25	80	INT	6.7 x 5.6 x 1.7	1.2	\$49.95	\$39.95
157964CE	LED1007	IR red illuminator kit	—	41	BEG	2" Dia.	0.1	\$16.95	\$15.29
125090CE	DK20	Ultrasonic alarm kit	—	49	INT	2.8 x 2.0 x 0.9	0.1	\$29.95	\$26.95
134105CE	OEM-ARN2	Voltage output distance sensor module	26	—	—	2.8 x 1.8 x 0.9	0.2	\$159.95	\$143.95
151482CE	RS-232	RS-232 output distance sensor module	—	—	—	—	1.0	\$179.95	\$161.95
200310CE	MK124	Scrolling message kit	—	76	INT	3.5 x 2.6 x 1.8	0.2	\$24.95	\$22.45
147555CE	MK101	Flashing LED sweetheart kit	—	46	INT	2.5 x 2.4 x 1.2	0.1	\$11.95	\$10.95
147580CE	MK102	Flashing LED kit	—	23	INT	1.3 x 1.4 x 0.6	0.1	\$7.95	\$7.19
136223CE	DK-79C	Light sensitive relay kit	—	20	INT	2.4 x 1.3 x 1.0	0.1	\$12.95	\$11.65
285595CE	SR-LBI	Build your own lightbulb kit	—	5	BEG	5.5 x 2.7 x 6.6	0.4	\$54.95	\$52.25
285616CE	SR-LBI-R	Refurbishment pack for lightbulb kit	—	—	BEG	—	—	\$14.49	\$13.75
313875CE	B224	Laser light show kit	27	—	—	—	—	\$22.95	\$21.80
286969CE	LFB-10	Flashing LED American flag	28	—	—	1.2 x 0.7	—	\$3.99	\$3.79

Test and Measurement Kits

20685CE	JE2206	Function generator kit	—	21	INT	4.1 x 1.5	0.1	\$24.95	\$22.95
129091CE	K7102	Metal detector kit	29	22	INT	2.1 x 2.1	0.4	\$11.95	\$10.95
157315CE	MK108	Water leak alarm kit	—	7	BEG	2.8 x 1.8	0.1	\$10.95	\$9.95
313736CE	B051	Gas/spirits sensor kit	—	—	—	—	—	\$29.95	\$28.45
313832CE	B229	Clean air measuring kit	30	—	—	4.0 x 1.5	—	\$29.95	\$21.80
313904CE	B160	LED VU meter kit	31	—	—	3.7 x 3.7	—	\$24.95	\$23.70

KIT assembly experience level: BEG = beginner; INT = intermediate; EXP = expert



Fig. 1



Fig. 2



Fig. 3



Fig. 4



Fig. 5



Fig. 6



Fig. 7



Fig. 8



Fig. 9



Fig. 10



Fig. 11



Fig. 12



Fig. 13



Fig. 14



Fig. 15



Fig. 16

Microprocessor Starter Kit



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This Microprocessor Starter Kit is designed to work with several different forms of applications via system control: commands and feedback, data acquisition, and custom hardware setups specific to user requirements. Whether you are an embedded systems expert, or an electronics novice, Imagine Tools offers an educational community devoted to bringing as much value to a kit purchase as possible by offering free downloadable products, application ideas, and support. The microprocessor starter kit is ideal for hobbyists, enthusiasts, and entrepreneurs seeking to create a killer product and/or application. Kit includes RCM3610 module with Rabbit 300A microprocessor, starter board, software CD, hardware, and power supply.

- 256k FLASH/128k SRAM
- 33 digital I/O ports
- 4 serial ports

Part No.	Description	Input Voltage	Current Draw	Price
354992CE	Microprocessor starter kit	24-40VAC, 7-40VDC	43mA typ.@12V, 16mA typ.@40V	\$94.05

Part No.	Mfg. P/N	Description	Fig.	No. of Pieces	Exp. Level	Dimensions (L"xW"xH")	Wt. (lbs.)	Pricing	
								1	10
Educational Kits									
307707CE	652111	Detector radio kit	—	29	BEG	10.9 x 6.9 x 1.6	1.0	\$22.95	\$19.99
307723CE	628710	Fuel cell car and experiment kit	—	39	INT	8.5 x 4.4 x 6.5	5.0	\$39.95	\$25.95
307731CE	626112	Power house kit	1	59	INT	15.6 x 9.9 x 9	6.0	\$39.95	\$25.95
285624CE	SR-TGI	Telegraph kit	2	—	—	2.7 x 2.7 x 4	—	\$49.95	\$47.49

Timer Modules and Electronic Dice Kit

147871CE	I-1	1 sec. to 3 min. timer module	—	—	—	3.0 x 1.7 x 1.2	—	\$19.95	\$17.95
147846CE	I-10	3 sec. to 1 min. off cyclic timer module	—	—	—	3.0 x 1.7 x 1.2	—	\$22.49	\$20.29
200352CE	K3400	Dual electronic dice kit	3	85	INT	3.0 x 2.8	0.5	\$18.95	\$16.95

Audio Transmitters, Amplifier, Sound Generator and Detection Kits

SALE

151204CE	AA-1	Super snooper big ear audio amplifier kit	4	17	INT	1.8 x 1.0 x 0.6	—	\$10.95	\$9.95
151239CE	FMST-100	FM stereo transmitter mini kit	5	37	INT	2.7 x 2.0	—	\$29.95	\$26.95
117604CE	K1771	FM transmitter kit	6	26	INT	1.8 x 2.8	—	\$10.19	\$9.99
211772CE	MK118	FM radio kit	—	65	INT	4.8 x 3.3	—	\$21.95	\$19.95
125161CE	6063KT	One chip AM radio kit	7	39	INT	4.0 x 1.3 x 0.5	—	\$13.95	\$12.95
147643CE	K4304	10 LED mono VU meter kit	—	36	INT	2.7 x 1.4	0.3	\$16.99	\$15.99
117612CE	K1803	Universal mono pre-amplifier kit	—	17	INT	1.2 x 1.8	—	\$8.95	\$7.95
125111CE	6027KT	1-watt amplifier kit	—	9	INT	1.2 x 1.2 x 0.9	—	\$6.29	\$5.59
127255CE	K4001	7-watt amplifier kit	—	22	INT	2.2 x 1.4	—	\$13.95	\$12.49
136207CE	8405KT	18-watt bridged mono amplifier kit	—	17	BEG	2.2 x 1.1	—	\$15.59	\$13.95
147838CE	E-11	20-watt RMS amplifier module	—	—	—	2.8 x 2.8 x 1.6	—	\$24.95	\$22.49
129138CE	K4003	30-watt stereo power amplifier	8	38	INT	2.8 x 2.0	—	\$29.95	\$26.95
127562CE	K4401	Sound generator kit	9	61	INT	2.8 x 2.8	—	\$29.95	\$26.95
125137CE	DK31	Siren kit	—	20	BEG	2.0 x 0.8 x 0.5	—	\$7.95	\$7.15
125170CE	6101KT	Train sound generator kit	10	11	BEG	1.1 x 0.6 x 0.2	—	\$9.49	\$8.59
215394CE	MK140	Karaoke kit	11	59	INT	3.9 x 3.3 x 1.0	—	\$15.95	\$14.35
313912CE	B110	Stereo tone control kit	—	—	—	4.2 x 1.5	—	\$19.95	\$18.95
313921CE	B009	Antenna amplifier kit	—	—	—	2.2 x 2.2	—	\$12.95	\$12.30
147571CE	MK103	Voice activated LED kit	12	33	INT	2.5 x 1.6 x 1.4	0.1	\$9.95	\$8.95

Clock Kits

319281CE	K8009	Multifunction clock kit	13	—	—	9.9 x 3.1	—	\$99.95	\$94.50
319290CE	B8009	Case for multifunction clock kit	—	—	—	12.4 x 3.2 x 1.0	—	\$24.95	\$23.70

Optical Communications

177092CE	IR-2	Infrared transmitter/receiver kit	—	26	BEG	1.4 x 1.2	0.1	\$24.95	\$22.49
169914CE	IF-LMH	Fiber optic lab kit	14	—	—	—	0.7	\$46.89	\$42.29

Holiday Kits

211781CE	MK130	3D flashing Christmas tree kit	15	36	INT	3.1 x 3.5 x 4.0	—	\$10.95	\$9.95
211764CE	MK116	Santa sleigh and reindeer kit	—	201	EXP	5.7 x 3.2	—	\$22.95	\$20.65
236072CE	MK117	Deluxe Christmas tree kit	—	208	INT	3.2 x 5.6	—	\$19.99	\$17.99
147635CE	MK100	Flashing Christmas tree kit	—	30	BEG	4.0 x 2.4	—	\$6.29	\$5.97
236081CE	MK145	Flashing pumpkin kit	16	71	INT	1.3 x 4.0 x 3.2	—	\$9.99	\$8.99

KIT assembly experience level: BEG = beginner; INT = intermediate; EXP = expert

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								1	10
Robotic and Computer Control Kits									
199603CE	769K	Rockit robot expert kit	17	96	EXP	—	1.0	\$21.95	\$19.55
157366CE	007	Robotic arm kit (unassembled)	18	109	EXP	—	4.5	\$74.95	\$67.49
159345CE	007/IBM	Robotic controller software (DOS 4.2 & up, Windows* 95/98)	—	—	—	—	1.0	\$84.95	\$76.49
140821CE	972K	Spider kit	19	107	EXP	12 x 7 x 3.5	1.2	\$49.95	\$43.95
200328CE	MK127	Running micro bug kit	20	26	INT	4.0 x 2.4	0.2	\$18.95	\$16.95
200336CE	MK129	Crawling micro bug kit	21	29	INT	4.0 x 2.4	0.2	\$21.45	\$19.35
128928CE	K8000	Computer control interface kit	—	301	EXP	9.3 x 5.3	1.7	\$139.95	\$125.95
128910CE	K6714	Universal relay controller card kit	—	64	EXP	8.3 x 5.9	1.8	\$59.95	\$53.95
120678CE	K6501	Remote control by phone kit	—	116	EXP	4.1 x 5.1	0.7	\$69.49	\$62.59
285641CE	561-4562	Hovercraft kit	22	25	BEG	—	0.8	\$21.79	\$20.69
239476CE	K2633	Relay card kit (req. 9VDC@300mA power supply, 133891CE, pg 198)	—	29	INT	3.0 x 2.7	0.4	\$19.99	\$18.99

Power Supply and Motor Kits

117621CE	K1823	1 amp power supply kit	—	12	INT	2.1 x 2.1	0.3	\$12.95	\$11.65
20626CE	JE215	Dual adj. regulated power supply kit	—	48	INT	5.1 x 3.5 x 2.0	2.1	\$22.95	\$20.49
120539CE	K8004	DC to pulse width modulator kit	—	40	EXP	3.3 x 1.9 x 1.8	0.5	\$22.95	\$20.49
127829CE	DK67	DC motor speed control kit	—	35	INT	3.6 x 2.3 x 1.2	0.2	\$19.95	\$17.95
139109CE	DK109	Unipolar stepper motor driver kit	—	29	INT	2.6 x 1.9 x 1.0	0.1	\$29.95	\$26.95
181833CE	VM-1	DC voltage monitor kit	—	46	BEG	2.7 x 1.3	0.2	\$8.95	\$7.95
263628CE	K8005	Stepper motor controller card and motor kit	—	102	INT	3.9 x 3.5	0.3	\$59.95	\$56.95

Battery Charger Kits

239521CE	K8012	Lead acid battery charger kit	—	—	—	3.8 x 5.5 x 1.6	—	\$39.95	\$37.95
314211CE	M149	Solar cell battery charger	—	—	—	2.5 x 2.0 x 1.1	—	\$16.95	\$16.05

Electronic Lock Kits

127554CE	K6400	Code lock kit	23	67	INT	1.7 x 1.8	0.5	\$29.95	\$26.95
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Distance and Light Kits

129120CE	K3502	Parking radar kit	24	55	INT	4.9 x 1.9	0.5	\$39.95	\$34.95
117639CE	K5300	Stroboscope kit	—	19	EXP	3.5 x 2.6	0.5	\$15.49	\$14.99
131684CE	K8017	3-channel light organ kit	25	80	INT	6.7 x 5.6 x 1.7	1.2	\$49.95	\$39.95
157964CE	LED1007	IR red illuminator kit	—	41	BEG	2" Dia.	0.1	\$16.95	\$15.29
125090CE	DK20	Ultrasonic alarm kit	—	49	INT	2.8 x 2.0 x 0.9	0.1	\$29.95	\$26.95
134105CE	OEM-ARN2	Voltage output distance sensor module	26	—	—	2.8 x 1.8 x 0.9	0.2	\$159.95	\$143.95
151482CE	RS-232	RS-232 output distance sensor module	—	—	—	—	1.0	\$179.95	\$161.95
200310CE	MK124	Scrolling message kit	—	76	INT	3.5 x 2.6 x 1.8	0.2	\$24.95	\$22.45
147555CE	MK101	Flashing LED sweetheart kit	—	46	INT	2.5 x 2.4 x 1.2	0.1	\$11.95	\$10.95
147580CE	MK102	Flashing LED kit	—	23	INT	1.3 x 1.4 x 0.6	0.1	\$7.95	\$7.19
136223CE	DK-79C	Light sensitive relay kit	—	20	INT	2.4 x 1.3 x 1.0	0.1	\$12.95	\$11.65
285595CE	SR-LBI	Build your own lightbulb kit	—	5	BEG	5.5 x 2.7 x 6.6	0.4	\$54.95	\$52.25
285616CE	SR-LBI-R	Refurbishment pack for lightbulb kit	—	—	BEG	—	—	\$14.49	\$13.75
313875CE	B224	Laser light show kit	27	—	—	—	—	\$22.95	\$21.80
286969CE	LFB-10	Flashing LED American flag	28	—	—	1.2 x 0.7	—	\$3.99	\$3.79

Test and Measurement Kits

20685CE	JE2206	Function generator kit	—	21	INT	4.1 x 1.5	0.1	\$24.95	\$22.95
129091CE	K7102	Metal detector kit	29	22	INT	2.1 x 2.1	0.4	\$11.95	\$10.95
157315CE	MK108	Water leak alarm kit	—	7	BEG	2.8 x 1.8	0.1	\$10.95	\$9.95
313736CE	B051	Gas/spirits sensor kit	—	—	—	—	—	\$29.95	\$28.45
313832CE	B229	Clean air measuring kit	30	—	—	4.0 x 1.5	—	\$29.95	\$21.80
313904CE	B160	LED VU meter kit	31	—	—	3.7 x 3.7	—	\$24.95	\$23.70

KIT assembly experience level: BEG = beginner; INT = intermediate; EXP = expert



Fig. 17



Fig. 25



Fig. 18

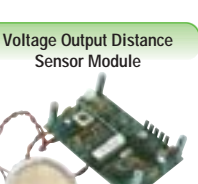


Fig. 26



Fig. 19

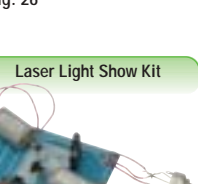


Fig. 27



Fig. 20

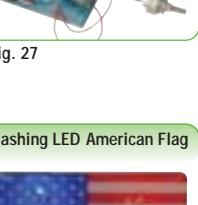


Fig. 28



Fig. 21



Fig. 29



Fig. 22



Fig. 30

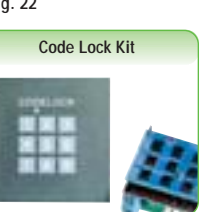


Fig. 23

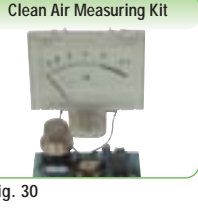


Fig. 31



Fig. 24

26-Pitch Press-Fit Gears and Gear Set

- Works with DC motors with 0.156" and 0.078" shaft diameter
- Heavy-duty plastic construction
- Diametral pitch: 26
- Material: polyethylene resin

131801CE: 20-piece gear set includes 2 each of all the gears and bushings shown below.

* Prepackaged: please order in increments of 10 or 100

Part No.	Description	Bore Size	PitchDia.	Works w/ Shaft Dia.	Outer Gear Dia.	1	10	100
162069CE	10 teeth gear	0.149"	0.378"	0.156 (5/32)"	0.455"	\$.89	\$.69	\$.55
162077CE	20 teeth gear	0.149"	0.756"	0.156 (5/32)"	0.842"	.89	.69	.49
162085CE	30 teeth gear	0.149"	1.142"	0.156 (5/32)"	1.225"	.89	.69	.49
162093CE	40 teeth gear	0.149"	1.540"	0.156 (5/32)"	1.623"	.89	.69	.49
162106CE	50 teeth gear	0.149"	1.900"	0.156 (5/32)"	1.985"	.89	.69	.49
162392CE	Bushing	0.075"	—	0.078 (5/64)"	—	*	.25	.22
Part No.	Description					1	10	50
131801CE	Gear set - 20 pieces of all the gears and bushings shown above					\$7.99	\$7.29	\$6.49

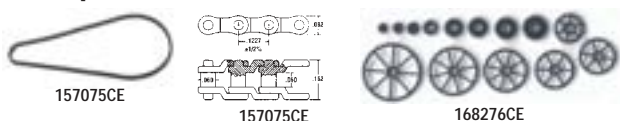


16-Pitch Sprocket Set and Chain

- Operates in high humidity and corrosive environments
- Chain links can easily be added or removed to adjust total length
- Chain tension load: 2.0 lbs.

168276CE: 14-piece sprocket set includes 1 each of the following: 8, 9, 10 teeth with 1/8" bore size; 12, 15, 16, 18, 20, 24, 30, 32, 36, 40 and 48 teeth with 1/4" bore size

Part No.	Description	1	10	25
157075CE	Drive chain (12" long)	\$9.95	\$8.95	\$7.95
168276CE	Sprocket set - 14 pieces (see description above)	29.49	26.49	23.89



Hub and 48-Pitch Gear Set

- Low coefficient of friction requires little or no lubrication
- Residual stress removed by annealing process

168284CE: 12-piece gear set includes 1 each of the following: 10 teeth with 1/8" bore size; 14 and 16 teeth with 1/4" bore size; 20, 24, 30, 36, 44, 54, 66, 84 and 100 teeth with 1/2" bore size

Part No.	Description	1	10	25
157104CE	1/4" bore aluminum mounting hub w/ set screws	\$4.95	\$4.49	\$3.95
168284CE	Gear set - 12 pieces (see description above)	39.95	34.95	31.95



Selectable Gear Box Kit

Great 35-piece kit for learning about gear ratios or to add a gear box to your robot project. See-through case has gear ratios from 6.8:1 to 807.93:1.

- Difficulty level: intermediate

Part No.	Description	Dimensions	Price
145509CE	Selectable gear box kit with 3V motor	2.5"L x 1.1"W x 1.5"H	\$15.95

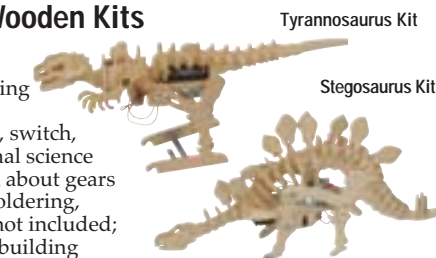


Motorized Wooden Kits

Kits, ideal for your child.

Your child will love building these kits and watching them walk. These kits come with "kid friendly" pre-punched wooden parts, gearbox, gears, shafts, switch, motor, and battery holder. A marvelous educational science project for ages 8 and up, and a great way to learn about gears and transmissions. These kits require no glue or soldering, just a few simple hand tools, and 2 AA batteries (not included; see pages 206-207 for batteries). Your kids will be building these kits in no time.

- Gear driven transmission
- Requires: knife, screw driver, and long-nose pliers



Part No.	Description	Price
242915CE	Stegosaurus kit	\$11.95
242923CE	Tyrannosaurus kit	11.95

Motor and Gear Case

Combination motor and gear train in plastic case.

- Operates on 0.5-3.0V @ 0.5V
- Runs at 20mA
- 6 RPM
- Strong torque @ 3V: 41 g-cm
- Shaft diameter: 2mm

Blue P/N = Limited Quantity Available

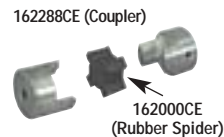
Part No.	Description	Dimensions	1	10
215271CE	Motor and gear case	3.0"L x 2.0"W x 1.5"D	\$12.45	\$11.29



SALE

Spider Couplers

- Used with motors
- 1 set screw per hub
- Hub OD: 0.625" Dia.
- Hub length: 0.56"
- Parts sold individually



Part No.	Description	1	10	50
162288CE	.125" (3.18 mm) ID hub	\$1.35	\$1.15	\$0.86
161998CE	.197" (5.00 mm) ID hub	1.09	.89	.59
162270CE	.250" (6.35 mm) ID hub	1.35	1.19	1.09
162000CE	Rubber spider	1.29	1.15	1.05

Climax Spider Shaft Couplers

209285CE/106606CE:

- 1 set screw per hub
- Hub OD: 0.625" Dia.
- Hub length: 0.56"



138288CE:

- 2 set screws (10-32 x 1/8)
- Size: 0.75"L x 0.5"OD



Part No.	Description	1	10	100
209285CE	.156" ID shaft hub	\$0.85	\$0.65	\$0.49
106606CE	.250" ID shaft hub	.75	.69	.59
138288CE	.250" ID sleeve coupler	4.49	4.05	3.65

Gears and Shafts Kit

Bag of gears, shafts and accessories. Great for science projects. All parts fit 2mm shaft motors.



Part No.	Description	1	10
215298CE	Gears and shafts kit	\$5.89	\$5.29

Mobile Robotic Car Design Book

McGraw Hill

This book describes in complete detail how to build a robotic car. It provides detailed photographs, schematics, list of vendors for parts, and provides software code for the processor and the digital signal processor with an explanation of what the code does and why. Printed circuit board files are free, and can be downloaded from www.books.mcgrawhill.com/authors/Kachroo Mellodge. (278 pages, 2005)



Part No.	Description	Price
313592CE	Mobile Robotic Car Design	\$23.95

Quartz Clock Mechanism

Build your own clock or replace the clock mechanism of a damaged clock with this quartz clock mechanism from Velleman.

- Includes: 1 x 1.5AA battery
- Dimensions: 2.2"Sq x 0.6"Thick



Part No.	Description	Price
239661CE	Quartz clock mechanism	\$3.49

Committed to You

We're committed to providing you with the best service in the industry.

Lasers



Green Laser Alignment Tool

NEW

- Finger-touch pressure switch
- 30x brighter than red laser
- Wavelength: 532nm • Distance: 2,000 yards
- Dot size: >1.75"Dia. @ 100 yards

Includes: 3V lithium battery



Part No.	Output Power	Size (L x Dia.)	1	10
421711CE	5mW max.	2.6" x 0.75"	\$199.95	\$179.95



Stylus Laser Pointer

NEW

A multi-function laser that serves as a stylus pen for PDAs. Buttons for a flashlight or a laser pointer.

- 500 yard range for laser-pointer function
- Super bright white LED for flashlight • Brass body, satin silver color

Includes: 3 LR41 batteries



Part No.	Output Power	Size (L x Dia.)	1	10
421702CE	5mW max.	5.625" x .375"	\$24.95	\$22.46

650nm Line and Dot Laser Diodes

143845CE/173243CE:

- Focus adjustable w/ locking set screw
- Wattage: 5mW
- Operating voltage: 3-5V
- Size: 3.3"L x 0.9"Dia.
- One-year warranty

Class IIIa Laser Product



173243CE

143845CE: Line laser module

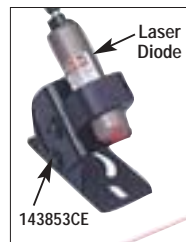
- Laser line width: 1mm • Laser fan angle: 60°

173243CE: Cross hair laser diode module

- Laser fan angle: 60°
- Size: 3.0"L x 0.9"D
- Female 2.1mm power connector

143837CE: Module regulated power supply

- Output: 5VDC @ 100mA
- Short circuit protection
- Input voltage: 95-125VAC or 190-250VAC switchable
- Size: 2.0"W x 1.7"D x 9.2"H
- Weight: 0.6 lbs.



143853CE

143853CE: Laser module mount

- Built to hold laser diode on target
- X-Y tilt, θ movement
- Tightening screw for tilt adjustment

Part No.	Description	1	10
143845CE	Line laser diode module	\$114.95	\$103.95
173243CE	Cross hair laser diode mod.	89.95	80.95
143837CE	Regulated power supply	19.95	17.95
143853CE	Laser diode module mount	49.95	39.95

Laser Diode Module

- Operates on 3VDC @ <5mW
- 650nm wavelength
- Beam diameter: 5 x 8mm
- Working distance: over 50 meters/yards (daylight), 200 meters/yards (dark)
- Size: 0.9"L x 0.3"Dia.
- One-year warranty

Class IIIa Laser Product



Part No.	Description	Price
310519CE	Laser module, brass	\$44.95

Glass-Lens Red Laser Diode and Line Generator

133292CE: Laser Diode

Class IIIa Laser Product

This lens design uses 3-element glass to collect almost all the power from the laser diode resulting in a brighter spot than many typical laser applications.

- Operating voltage: 4.0-6.0VDC (recommend P/N 112070CE, pg 197)
- Beam size at 7m: oval - 5mm x 8mm
- Maximum output: 4mW
- Wavelength: 660nm
- Beam divergence: 0.2mrad
- Green LED indicator • Module size: 2.0"L x 0.5"W



133292CE

134148CE: 60° Line Generating Lens

- Adjustable focus range: 50 cm to ∞
- Back focal length: 1.5mm
- Focal length: 8.0mm
- Fan angle: 60°
- Beam divergence: 2.0mrad
- Lens construction: 3E.3G (glass)
- Length at 1 meter distance: 1.7 m



134148CE

Part No.	Description	1	10	25
133292CE	Glass laser diode	\$44.95	\$39.95	\$35.95
134148CE	60° lens	12.95	11.49	9.95

Green Laser Pointer

Ultra-intense green beam is much brighter, goes much farther, and is easier on the eyes than standard red lasers.

Even the sleepiest audience will sit up and salute when you whip out a laser pointer that's green, not red... and so bright, you could be standing nearly half a mile away. Using a wavelength closely matched to the highest sensitivity of the human eye and built with cutting-edge crystal technology, this laser projects a green beam so powerful you can see it against a clear sky at night. You won't believe how bright it is.

- 90-day manufacture warranty

Includes: Metal gift box, clip and 2 AAA batteries

SALE

Hot Product!

Part No.	Description	Output Wavelength	Output Power	Price
223731CE	Green laser pointer	532nm	<5mW	\$152.25

Eye-Catching Solar Powered Retail Display Device

See Jameco.com for Data Sheet.



Add eye-catching motion to your in-store advertising with this solar clip-on motion display. Just clip on to an existing fluorescent light blub, add your own signage, turn the lights on and your in-store advertising sign comes to life. Long-life solar motor turns your sign counter clockwise. No batteries or AC power to worry about. No need to worry about tripping your motion sensing alarm systems because you can simply switch off your fluorescent light and the movement stops.

Part No.	Description	1	10
215221CE	Clip-on motion retail display	\$16.89	\$15.35

SALE

Color Code Legend
New Sale Lower\$ QtySave

Solar Button Cell Battery Charger

A convenient and safe way to revitalize worn down button cell batteries. LED indicator lets you know when the battery is being charged. Charges nickel-cadmium (NiCd), nickel-metal-hydride (NiMH), alkaline, mercury, and most zinc air (1.2V-1.5V) batteries. Blue P/N = Limited Qty



Part No.	Description	Size (L x W)	1	10
215247CE	Solar button cell charger	2.3" x 1.4"	\$11.65	\$10.59

SALE

Portable Solar Battery Charger

Completely self-contained unit, no moving parts or cords. Uses satellite type solar cells that produce the highest power to weight ratio. Re-energizes carbon-zinc, alkaline, nickel-cadmium (NiCd), and nickel-metal-hydride (NiMH) batteries. Includes: Battery adapter to charge, AA, C, and D type batteries.



Part No.	Description	Size (L x W x D)	1	10
215239CE	Solar pocket charger	3.6"L x 3.1"W x 1.5"D	\$22.79	\$20.69

SALE

Ordering Information

PAYMENT OPTIONS

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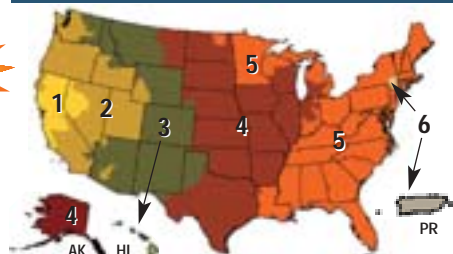
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Orders received Mon.–Fri. by 6:00 p.m. Eastern Standard Time will be shipped the same day. Orders received Saturday and Sunday will ship the following Monday (except on holidays). If we are unable to fill your order on the day received, we will send you a gift certificate worth \$5.00 towards your next Jameco purchase. This offer does not apply to orders waiting for credit approval or backordered items.

Options and Rates*

Shipping delivery times are based on working days.

Ground Service

Up to 6 working days for commercial address (up to 9 working days for residential). Guaranteed delivery times may vary depending on zip code. \$6.49 for 1st 2 lbs.; \$0.79 for each additional lb.

2-Day Air Service

\$13.95 for 1st 2 lbs.; \$1.99 for each additional lb.

Next Day Air Service

- \$31.95 for AM delivery for 1st 2 lbs.; \$2.69 for each additional lb.
- \$21.95 for afternoon delivery for 1st 2 lbs.; \$2.49 for each additional lb.

Priority Mail (USPS)

\$5.95 for 1st lb.; \$1.49 for each additional lb. Order must be placed before 5:00 p.m. Eastern Standard Time to ship same day.

Packaging Weight

Packaging weight will be assessed at 1/2 lb., plus an additional 1/2 lb. for each 10 lbs. of product.

* The above rates apply to single box shipments through UPS that are less than 50 lbs. Please call for shipping quote on packages greater than 50 lbs. or for other carriers. Jameco reserves the right to rebill shipping surcharges for customer misaddressed packages.

International Shipping & Handling

Shipping is via courier or postal service, depending on your preference, insurance availability, and the size and weight of your package. Jameco will apply actual shipping charges with a nominal handling charge on all foreign orders. For mail-in customers, please include 25% for shipping charges or call for a shipping quotation. All returns that meet postal requirements must be sent prepaid via air parcel post. All courier shipments to Canada and Mexico require a certificate of origin.

POLICIES

Confirming Orders

Please do not send confirming orders. If company policy necessitates a confirming order, please mark "CONFIRMING" boldly on the first page of the order.

No Minimum Order

A \$5.00 processing fee will be added to U.S. orders under \$25.00. This fee will be waived on web orders. All international orders below \$40.00 will incur a \$7.50 processing fee.

See previous page for Ordering Information

Fax 1-800-237-6948 Order 24 hours/7 days a week!

Jameco, 1355 Shoreway Road, Belmont, CA 94002 Call: 1-800-831-4242 International TEL: 1-650-592-8097 FAX: 1-650-592-2503

1 Ordered By (We will ship to this address unless you enter #2).Customer No. _____ VIP No. _____
(see back cover)

Company _____

Name of Requisitioner _____

Title _____

Name of Purchasing Agent _____

Title _____

Street Address/PO Box Number _____

City _____ State _____ Zip Code _____

Contact information (please provide all information and check method preferred)

(_____) _____

Daytime phone number - Required for Credit Card Orders

(_____) _____

Fax Number

E-mail Address _____

☐ Please check this box if you prefer not to receive special offers via e-mail from Jameco.**2 Ship To** (Only required if different from #1)

Company _____

Name _____

Title _____

Street Address/PO Box Number _____

City _____

State _____

Zip Code _____

3 Method of Payment☐ Prepaid (check enclosed)☐ C.O.D. (\$7.50 service charge)☐ Net 30 Days (Account must be previously established. Authorized P.O. # required.)

PURCHASE ORDER NO.: _____

☐ Credit Card

Credit Card users only:

Credit Card Number Exp. Date: Month Year Name on card _____

Billing Address Street/PO Box _____

City/State/Zip _____

4

ITEM NO.	QTY.	PART NUMBER	DESCRIPTION	PAGE NO.	WEIGHT (LBS.)	UNIT PRICE	TOTAL
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							

PRODUCT WEIGHT	SUB-TOTAL
Packaging Weight (Add 1/2 lb. + 1/2 lb. for each 10 lbs. of product)	
Total Weight (Round to next lb.)	

5 Please Check Shipping Method Below

- ☐ **Priority Mail (USPS)**\$5.95 for 1st lb., \$1.49 for each additional lb.
- ☐ **Ground**\$6.49 for 1st 2 lbs., \$0.79 for each additional lb.
- ☐ **2 Day Air Service**\$13.95 for 1st 2 lbs., \$1.99 for each additional lb.
- ☐ **Next Day Air Service (PM delivery)**\$21.95 for 1st 2 lbs., \$2.49 for each additional lb.
- ☐ **Next Day Air Service (AM delivery)**\$31.95 for 1st 2 lbs., \$2.69 for each additional lb.
- ☐ **Foreign Shipment via Air Parcel Post**Shipping approximately 25% of order total. Excess fees will be refunded. Additional shipping methods available.

Some restrictions may apply. See order information (previous page) for other shipping methods and conditions of sale.
Shipping rate is based on a single package shipment.

\$5.00 processing fee on U.S. orders under \$25; \$7.50 for international orders under \$40 (fees waived for web orders)	
Please Add Applicable Sales Tax (California Only)	
Shipping (See Item 5)	
C.O.D. (add \$7.50)	
Credit Memo (please attach)	—
TOTAL	

6**JAMECO** *thanks you for your order!*

#	FOR OFFICE USE ONLY
	/

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CMOS Logic, DIP

Save Up to 51%

Save 40% or more on your next CMOS logic purchase. Our expanded offering includes 74ACT, 74AHCT & 4000 Series products on pages 19-23, 32 & 33.



Jameco Part No.	Product No.	PRICES - See Below For Details				Minimum	
		Jameco®	Digi-Key®	Mouser®	Newark®	Savings	Discount
211895CE	74AC240	\$0.30	\$0.72	\$0.62	\$0.72	\$0.32	51.6%
261614CE	SN74AC240N, TI	\$0.32	\$0.72	\$0.50	\$0.72	\$0.18	36.0%
13012CE	CD4046	\$0.30	\$0.56	\$2.35	\$0.56	\$0.26	46.4%
13071CE	CD4050	\$0.25	\$0.48	\$0.39	\$0.48	\$0.14	35.9%
13581CE	CD4520	\$0.33	\$0.48	\$0.51	\$0.48	\$0.15	31.3%

74ABT Series Logic, SMD

Save Up to 34%

Jameco offers great savings in logic products. Be sure to check out the great prices we offer in SMD devices too. See page 23 for more great savings!



Jameco Part No.	Product No.	PRICES - See Below For Details				Minimum	
		Jameco®	Digi-Key®	Mouser®	Newark®	Savings	Discount
290351CE	74ABT125N	\$0.36	\$0.64	\$0.55	\$0.64	\$0.19	34.5%
290378CE	74ABT244AN	\$0.59	\$0.80	\$1.41	\$0.80	\$0.21	26.3%
291194CE	74ABT245BD	\$0.59	\$0.72	\$0.89	\$0.72	\$0.13	18.1%
290415CE	74ABT373N	\$0.59	\$0.88	\$1.41	Not offered	\$0.29	33.0%
291426CE	74ABT541BD	\$0.58	\$0.92	\$1.26	\$0.75	\$0.17	22.7%

74ALS Series Logic, DIP

Save Up to 40%

Jameco offers a broad selection of logic families to meet your design requirements, and each is priced to save you significant amounts of money. See page 32 for the 74ALS family.



Jameco Part No.	Product No.	PRICES - See Below For Details				Minimum	
		Jameco®	Digi-Key®	Mouser®	Newark®	Savings	Discount
245753CE	74ALS240A	\$0.49	\$0.75	\$0.99	\$0.756	\$0.26	34.7%
245761CE	74ALS244A	\$0.53	\$0.76	\$0.92	\$0.75	\$0.22	29.3%
245770CE	74ALS245A	\$0.45	\$0.96	\$0.96	\$0.75	\$0.30	40.0%
245809CE	74ALS374A	\$0.49	\$0.92	\$0.87	\$0.756	\$0.266	35.2%

74LS Series Logic

Save Up to 55%

Yes, even tried and tested logic products like 7400 and 74LS series are priced well below market price. Look to pages 29-31 for savings of 40% or more.



Jameco Part No.	Product No.	PRICES - See Below For Details				Minimum	
		Jameco®	Digi-Key®	Mouser®	Newark®	Savings	Discount
48004CE	74LS74	\$0.36	\$0.52	Not offered	\$0.52	\$0.16	30.8%
47167CE	74LS241	\$0.36	\$0.80	\$1.30	\$0.80	\$0.44	55.0%
47870CE	74LS541	\$0.46	\$0.75	\$1.30	\$0.75	\$0.29	38.7%
308304CE	SN74LS241N, TI	\$0.40	\$1.30	\$0.80	\$0.80	\$0.40	50.0%
308523CE	SN74LS541N, TI	\$0.50	\$0.75	\$0.89	\$0.75	\$0.25	33.3%

Radial Electrolytic Capacitors

Save Up to 35%

Electrolytic capacitors may all look the same, but they're certainly not priced the same! See pages 65-66, then reduce your costs by purchasing from Jameco.



Jameco Part No.	Description	PRICES - See Below For Details				Minimum	
		Jameco®	Digi-Key®	Mouser®	Newark®	Savings	Discount
31000CE	47uF, 50V, 20%	\$0.038	\$0.15	\$0.06	\$0.04	\$0.002	5.0%
198951CE	47uF, 35V, 20%	\$0.05	\$0.18	\$0.08	\$0.06	\$0.01	16.7%
29962CE	100uF, 50V, 20%	\$0.07	\$0.29	\$0.11	\$0.109	\$0.039	35.8%
30496CE	220uF, 25V, 20%	\$0.08	\$0.31	\$0.12	\$0.109	\$0.029	26.6%
93825CE	470uF, 50V, 20%	\$0.29	\$0.52	\$0.44	\$0.444	\$0.15	34.1%

Data Transmission

Save Up to 63%

Save more than 18% on devices to drive your communications signals reliably. See page 35 for our complete line of money-saving products.



Jameco Part No.	Product No.	PRICES - See Below For Details				Minimum	
		Jameco®	Digi-Key®	Mouser®	Newark®	Savings	Discount
50948CE	75174N, DIP	\$0.76	\$1.30	\$1.44	\$1.30	\$0.54	41.5%
24811CE	MAX232CPE, DIP	\$2.19	\$3.31	Not offered	\$3.19	\$1.00	31.3%
23181CE	DS1489N, DIP	\$0.23	\$0.48	\$0.28	\$0.48	\$0.05	17.9%
16361CE	DS14C88N, DIP	\$0.57	\$1.55	Not offered	\$1.55	\$0.98	63.2%
252427CE	MC3486D, SOIC	\$0.72	\$0.75	\$1.01	\$0.75	\$0.03	4.0%
252961CE	MC3487D, SOIC	\$0.46	\$0.75	\$0.96	\$0.75	\$0.29	38.7%
256081CE	SN75189N, DIP	\$0.69	\$0.75	\$0.86	\$0.75	\$0.06	8.0%

Operational Amplifiers

Save Up to 46%

Looking for a comparator or op amp at a great price? Take a look at our large selection on pages 41-43 and see how much money you can save when buying from Jameco!



Jameco Part No.	Product No.	PRICES - See Below For Details				Minimum	
		Jameco®	Digi-Key®	Mouser®	Newark®	Savings	Discount
22904CE	LF347N, DIP	\$0.36	\$0.76	\$0.56	\$0.586	\$0.20	35.7%
193640CE	LF412CD, SOIC	\$0.27	\$0.50	\$0.89	\$1.14	\$0.23	46.0%
212169CE	LM324AN, DIP	\$0.25	\$0.50	\$0.36	\$0.975	\$0.11	30.6%
246588CE	LM358AM, SOIC	\$0.23	\$0.48	\$0.35	\$0.339	\$0.109	32.2%
33187CE	TL071CP, DIP	\$0.27	\$0.48	\$0.59	\$0.48	\$0.21	43.8%
214084CE	TL084ACN, DIP	\$0.49	\$0.88	\$0.93	\$0.88	\$0.39	44.3%

Optocouplers

Save Up to 42%

Jameco offers a wide selection of optoisolators and each is priced to save you money. See page 51 for everything from switches to darlington and triac drivers.

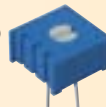


Jameco Part No.	Product No.	PRICES - See Below For Details				Minimum	
		Jameco®	Digi-Key®	Mouser®	Newark®	Savings	Discount
277464CE	4N36, DIP	\$0.20	\$0.56	\$0.33	\$0.56	\$0.13	39.4%
277510CE	6N135, DIP	\$0.54	\$0.92	\$0.90	\$0.922	\$0.36	40.0%
277561CE	H11A1, DIP	\$0.27	\$2.00	\$0.47	\$0.56	\$0.20	42.6%
24918CE	MCT6, DIP	\$0.56	\$0.84	\$0.83	\$0.83	\$0.27	32.5%
277801CE	MOC3022, DIP	\$0.49	\$0.77	\$0.84	\$0.77	\$0.28	36.4%
277819CE	MOC3023, DIP	\$0.51	\$0.83	\$0.83	\$0.627	\$0.117	18.7%

Trimmer Potentiometers

Save Up to 28%

Be sure to take a look at our expanded selection of Jameco ValuePro™ and Bourns trimmer pots on pages 77-78. Each is priced to save you money!



Jameco Part No.	Description	PRICES - See Below For Details				Minimum	
		Jameco®	Digi-Key®	Mouser®	Newark®	Savings	Discount
253981CE	1k, 1/2W	\$0.59	\$0.83	\$0.83	\$0.981	\$0.24	28.9%
254676CE	10k, 1/4W	\$2.29	\$3.58	\$2.94	\$3.64	\$0.65	22.1%
254094CE	10k, 1/2W	\$0.59	\$0.83	\$0.83	\$0.981	\$0.24	28.9%
254035CE	100k, 1/2W	\$0.59	\$0.83	\$0.83	\$0.98	\$0.24	28.9%

Transistors

Save Up to 37%

Need a low-noise, small-signal amplifier or a high-power MOSFET switcher? Be sure to review our full selection of money-saving transistors on pages 46-48.



Jameco Part No.	Product No.	PRICES - See Below For Details				Minimum	
		Jameco®	Digi-Key®	Mouser®	Newark®	Savings	Discount
254810CE	BC337, TO-92	\$0.174	\$0.36	\$0.36	\$0.194	\$0.02	10.3%
214674CE	MMBT4124, SOT-23	\$0.04	\$0.39	\$0.06	\$0.08	\$0.02	33.3%
214754CE	MMBT5401, SOT-23	\$0.05	\$1.40	\$0.08	\$0.09	\$0.03	37.5%
214009CE	MMPQ2907A, SOIC	\$1.19	\$1.40	\$2.56	\$1.88	\$0.21	15.0%
288921CE	MPSA63, TO-92	\$0.075	\$0.30	\$0.11	\$0.131	\$0.035	31.8%
179354CE	TIP31C, TO-220	\$0.49	\$0.60	\$2.45	\$0.612	\$0.11	18.3%

More on Price Comparisons

These are single unit prices taken from each party's website on September 9, 2005, and do not include shipping & handling charges, volume discounts or any other discounts. Pricing does fluctuate, so please be sure to check when making purchases.



Switches

- Multi-pole and multi-position
- Wide variety of actuator & termination options
- Rugged construction

Snap Switch Series:

- A • H & HB
- SD • TF, TL & TM
- KSB

Tactile Switch Series:

- KM • KSA & KSC • Y
- Switch Key • RF15 & RF19 • TPA

DIP Switch Series:

- BD & BP • CD
- TD • SD & SDA

Pushwheel & Thumbwheel Series: 3, 3P & 3U

Other Available Switches and Accessories:

- Slide • Toggle • Dome
- Power • SIP • Caps
- Hardware/Frames • Detector

See Our Complete C&K Switch Offering at www.Jameco.com/Prod/CKSwitches



Pushbutton Switches

- Reliable contact design
- Momentary, subminiature, ultra miniature

Available Series:

- 3 • 8020 & 8060
- 8500, 8600 & 8700 • E010 & E020
- GP • KM, KP & KS
- PVA • RE & RT
- EP • Rafix 16 • F
- SE • Lumotast 75 • TP

See Our Complete C&K Pushbutton Switch Offering at www.Jameco.com/Prod/CKPushbutton



Keylock Switches

- Variety of functions including momentary, latching, 2 and 3 position and multiple lock options.

Available Series:

- BY • KS • Y
- TS • W

See Our Complete C&K Keylock Switch Offering at www.Jameco.com/Prod/CKKeylock



Rocker & Rotary Switches

- Miniature size up to power rockers for PCB, SMD and panel mount applications.
- Multi-pole and multi-position models with variety of indexing options for low current to 12 amp applications

Rocker Switch Series:

- 7000 & 9000 • E & ET • T
- C & CA • D, DF & DM • JA

Rotary Switch Series:

- CD • CRD • RTE

See Our Complete C&K Rocker Switch Offering at www.Jameco.com/Prod/CKRocker

Regulated DC Power Supplies

12V/10A Precision Regulated

- Input: 117VAC @ 60Hz
- Output: 13.8VDC, 10A continuous, 12A surge
- Dimensions: 7.75"L x 6.5"W x 4.5"H
- Wt.: 9.25 lbs.

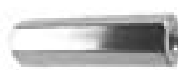
24V/2A Regulated

- Input: 117VAC @ 60Hz
- Output: 24VDC, 2A continuous, 2.5A surge
- Dimensions: 7.5"L x 4.25"W x 2.625"H • Wt.: 4 lbs.

See Our Complete Speco Power Supply Offering at www.Jameco.com/Prod/SpecoPower



Spacers & Standoffs



Ceramic Spacers

- Grade L-5 ceramic
- Thread depth: 1/4"

Nylon Round Spacers

- Low operating temperature
- Molded nylon

Brass Spacers

- Stand up moderately to extreme environmental conditions
- Nickel plating

Aluminum Round Spacers

- Low weight alternative to brass spacers

Aluminum Hex Standoffs

- Light weight

Brass Hex Standoffs

- Nickel plating • Non-oxidizing surface

Nylon Round Threaded Standoffs

- Allows wire to be threaded without fear of chafing
- Hole Size: #4-40

See Our Complete Abbatron Hardware Offering at www.Jameco.com/Prod/AbbatronHardware



Hardware

Internal Tooth Lock Washer

- Steel • Contact plating: zinc

Hex Nut Washer

- Bolt mounting • Brass
- Contact plating: nickel

Insulated Washer

- Nylon or Fiber

Binder Head Screws

- Steel • Zinc finish

Bumpers & Chassis Feet w/ or w/o Washers

- Rubber
- Convenient protection for electrical equipment

Grommet

- SBR/PVC • Prevents chafing through holes in panels

Internal Tooth Solder Lug

- Stud sizes #4, #6, #8 & #10 • Thickness: 0.018

See Our Complete Abbatron Hardware Offering at www.Jameco.com/Prod/AbbatronHardware

Flash Memory Cards

xD Picture Card

- Recording media for digital cameras
- For use with Olympus and Fuji
- Fuji: 64MB to 256MB
- Olympus: 64MB to 512MB
- LexarMedia: 32MB to 128MB

Memory Stick, Memory Stick Pro, Memory Stick Pro Duo

- For use with digital imaging, audio, video, mobile, PCs and gaming.
- MagicGate Memory Stick: 128MB
- SanDisk Memory Stick PRO: 512MB to 2GB
- LexarMedia Memory Stick PRO: 1GB
- SanDisk Memory Stick Pro Duo: 64MB to 1GB
- Sony Memory Stick PRO Duo: 256MB

See Our Complete Flash Memory Card Offering at www.Jameco.com/Prod/FlashMemoryCards

Universal USB Card Reader/Writers



SanDisk ImageMate 12-1

- CF type I&II; SD; miniSD; MMC; RS-MMC; MS; MS PRO; MS Duo; MS PRO Duo; SM; xD

SanDisk MobileMate 4-1

- MS; MS PRO; MS Duo; MS PRO Duo

Soyo MS-PC-8100 12-1

- 3-port hub
- CF type I&II; SD; miniSD*; MMC; miniMMC; MS; MS PRO; MS Duo*; MS PRO Duo*; SM; MD

Zynet CR-T11-U29 11-1

- CF type I&II; MD; SM; MS; MS PRO; MS Duo; MS PRO Duo*; SD; MMC; RS MMC*; MiniSD

MediaGear MGTR-600 12-4

- CF type I&II; MD; SM; xD; MS; MS PRO; MS PRO Duo; MS Select; SD; miniSD; MMC

MediaGear MGTR-300 8-4

- CF type I&II; MD; MS; MS PRO; SM; SD; MMC

I-Rocks IR-5300 12-1

- Windows compatible only
- CF type I&II; MD; MS; SM; MS PRO; MS Duo*; MS PRO Duo*; SD; miniSD*; MMC; miniMMC

*Requires adapter; see page 217.

See Complete Card Reader Offering at www.Jameco.com/Prod/FlashReaders



Crimp Terminals

Ring Terminals

- Nylon Insulated
- Funnel entry or high temperature

Female Disconnect

- Nylon fully insulated

See Complete Panduit Terminals Offering at www.Jameco.com/Prod/PanduitTerminals

These products ship from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.